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LCD TV **SERVICE MANUAL**

CHASSIS : AL-04CA

MODEL : 32LX3DC-UA/32LX3DCS-UA

CAUTION

BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



CONTENTS

CONTENTS	2
PRODUCT SAFETY	3
SPECIFICATION	6
ADJUSTMENT INSTRUCTION	12
TROUBLE SHOOTING	15
BLOCK DIAGRAM.....	18
WIRING DIAGRAM.....	21
EXPLODED VIEW	22
EXPLODED VIEW PARTS LIST	23
REPLACEMENT PARTS LIST	24
SVC. SHEET	

SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by  in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer** should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between $1M\Omega$ and $5.2M\Omega$.

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

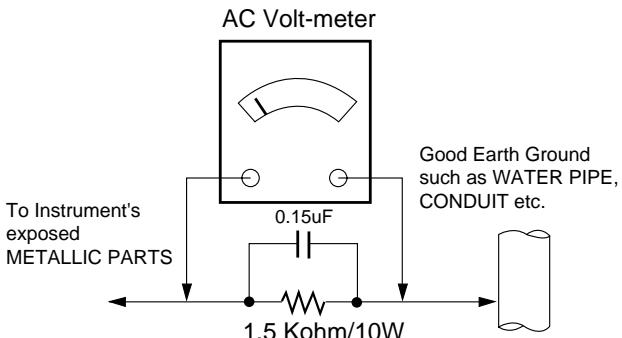
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the **SAFETY PRECAUTIONS** on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.

CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".

3. Do not spray chemicals on or near this receiver or any of its assemblies.

4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

CAUTION: This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.

6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.

7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.

Always remove the test receiver ground lead last.

8. *Use with this receiver only the test fixtures specified in this service manual.*

CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called

Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the

unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range of 500 °F to 600 °F.

2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.

3. Keep the soldering iron tip clean and well tinned.

4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.

5. Use the following unsoldering technique

- a. Allow the soldering iron tip to reach normal temperature. (500 °F to 600 °F)

- b. Heat the component lead until the solder melts.

- c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.

CAUTION: Work quickly to avoid overheating the circuitboard printed foil.

6. Use the following soldering technique.

- a. Allow the soldering iron tip to reach a normal temperature (500 °F to 600 °F)

- b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.

- c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.

CAUTION: Work quickly to avoid overheating the circuit board printed foil.

- d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush.
(It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor

Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device

Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor

Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.
Carefully crimp and solder the connections.

CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

This specification is applied to AL-04CA chassis.

2. Requirement for Test

Testing for standard of each part must be followed in below condition.

- (1) Temperature: $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (CST $40^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
- (2) Humidity: $65\% \pm 10\%$
- (3) Power: Standard input voltage (AC 100-260V, 50/60Hz)
- (4) Measurement must be performed after heat-run more than 15min.
- (5) Adjusting standard for this chassis is followed a special standard.

3. General Specification

No	Item	Specification	Remark
1.	Receiving System	ATSC/ 64 & 256 QAM/NTSC-M	Slim-VSB
2.	Available Channel	VHF : 02~13 UHF : 14~69 CATV: 01~135 DTV: 02-69	
3.	Input Voltage	AC 100 ~ 260V 50/60Hz	
4.	Market	North America	
5.	Screen Size	32 inch wide	
6.	Aspect Ratio	16:9	
7.	Tuning System	FS	
8.	LCD Module	LC320W01-A6K3 (1366x768)	LG Philips LCD
9.	Operating Environment	Temp. : $0 \sim 40$ deg Humidity : $10 \sim 90$ %	
10.	Storage Environment	Temp. : $-20 \sim 50$ deg Humidity : $10 \sim 90$ %	

4. Feature and Function

No	Item	Specification		Remark
1.	Feature	AV Input / Out	2	Video1,2, Input, No Output
		RGB Input	2	Analog RGB Input / IP Card Interface
		S-Input	2	S-Input
		DVI Input	1	DVI Input
		Y, Pb, Pr Input	2	Component 1, 2
		SPDIF Out	1	SPDIF Out
		SPDIF Input	1	SPDIF Input
		RS-232C	1	S/W Download
		Internal SPK Out	1	Mono, < 2W
2.	Key	Local Key	TV/Video, Menu, OK(■), Volume(◀, ▶), Channel (▲, ▼), Power (Main)	

No	Item	Specification	Remark
3.	SETUP	EZ Scan	Auto Channel Search
		CH. Edit	CH. Add/Delete
		DTV Signal	Bad/Normal/Good
		Ch. Label	CH. Logo
		Main Input	DTV/Analog/Video1/Video2/Component1/ Component2/RGB1-DTV/RGB2-DTV/DVI-DTV
		Sub Input	DTV/Analog/Video1/Video2
		Front Display	Off/On
		SET ID	1 - 99
4.	Video	EZ Picture	Off/Normal/Day Light/Night Time/ Movie/Video Game/Sports
		User Control	Contrast/Brightness/Color/Sharpness/Tint
		XD	Off/On
		Color Temperature	Warm/Medium/ Cool
		Video Preset	Factory Preset
5.	Audio	Audio Language	English/Spanish/French
		EZ SoundRite	Off/On
		EZ Sound	Off/Normal/Stadium/Theater/Music
		User Control	Balance/Treble/Bass
		Front Surround	Off/3D EchoSound System/SRS TruSurround XT
		TV Speaker	Off/On
6.	Time	Auto Clock	Off/On/Time Zone
		Manual Clock	Year/Data/Time
		Off Timer	Off/On/Time
		On Timer	Off/On/Time/Ch./Vol
		Sleep Timer	Off/10 min/20 min/30 min/60 min/90 min/120 min/180 min/240 min
		Auto Off	Off/On
7.	Option	Aspect Ratio	Set By Program/4:3/16:9/Horizon/Zoom1/ Zoom2/Cinema Zoom
		Caption	Off/EZ Mute/On
		Caption Mode	CC1/CC2/CC3/CC4/Text1/Text2/Text3/Text4
		Caption Option	Style/Size/Font/Text Color/Text Opacity/Bg Color/Bg Opacity/Edge Type/Edge Color
		Language	English/Espanol/Francais
		Cinema	Off/On
		Demo	Ez Demo/XD Demo
8.	Lock	Lock System	Off/On
		Set Password	New/Confirm
		Block Ch.	O
		Movie Rating	G/PG/PG-13/R/NC-17/X
		TV Rating-Children	Age/Fantasy Violence
		TV Rating-General	Age/Dialogue/Language/Sex/Violence
		Aux.Block	Video1/Video2/Component1/Component2/RGB1/RGB2/DVI
9.	Etc.	Comb Filter	3D Comb(main), 4H Comb(sub)
		Remocon	LG code

5. External Input Format

Component Video Input (Y, CB/PB, CR/PR)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock	Proposed
1.	640x480	15.73	60.00		SDTV ,DVD 480I
2.	704x480	31.47	59.94		SDTV 480P
3.	1280x720	45.00	60.00		HDTV 720P
4.	1280x720	44.96	59.94		HDTV 720P
5.	1920x1080	33.75	60.00		HDTV 1080I
6.	1920x1080	33.72	59.94		HDTV 1080I

RGB Input (PC/DTV)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock	Proposed
	PC				
7.	640x350	31.468	70.09	25.17	EGA
8.	640x480	31.469	59.94	25.17	VESA(VGA)
9.	640x480	37.861	72.80	31.50	VESA(VGA)
10.	640x480	37.500	75.00	31.50	VESA(VGA)
11.	800x600	35.156	56.25	36.00	VESA(SVGA)
12.	800x600	37.879	60.31	40.00	VESA(SVGA)
13.	800x600	48.077	72.18	50.00	VESA(SVGA)
14.	800x600	46.875	75.00	49.50	VESA(SVGA)
15.	1024x768	48.363	60.00	65.00	VESA(XGA)
16.	1024x768	56.476	70.06	75.00	VESA(XGA)
17.	1024x768	60.023	75.02	78.75	VESA(XGA)
	DTV				
18.	704x480	31.47	59.94		SDTV 480P
19.	1280x720	45.00	60.00		HDTV 720P
20.	1280x720	44.96	59.94		HDTV 720P
21.	1920x1080	33.75	60.00		HDTV 1080I
22.	1920x1080	33.72	59.94		HDTV 1080I

DVI Input (PC/DTV)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock	Proposed	
	PC					DDC
24.	640x350	31.468	70.09	25.17	EGA	O
25.	640x480	31.469	59.94	25.17	VESA(VGA)	O
26.	640x480	31.861	72.80	31.50	VESA(VGA)	O
28.	640x480	37.500	75.00	31.50	VESA(VGA)	O
29	800x600	35.156	56.25	36.00	VESA(SVGA)	O
30	800x600	48.077	72.18	50.00	VESA(SVGA)	O
31	800x600	46.875	75.00	49.50	VESA(SVGA)	O
32.	1024x768	48.363	60.00	65.00	VESA(XGA)	O
33.	1024x768	56.476	70.06	75.00	VESA(XGA)	O
34.	1024x768	60.023	75.02	78.75	VESA(XGA)	O
	DTV					
35.	704x480	31.47	59.94		SDTV 480P	
36.	1280x720	45.00	60.00		HDTV 720P	
37.	1280x720	44.96	59.94		HDTV 720P	
38.	1920x1080	33.75	60.00		HDTV 1080I	
39.	1920x1080	33.72	59.94		HDTV 1080I	

6. POWER

No	Item	Min	Typ	Max	Unit	Remark
1.	AC Power Operating Voltage	90		264	V	
2.	DC Voltage, LCD Panel Drive	11.4	12.0	12.6	V	
3.	DC Voltage, Inverter	23.4	24.0	24.6	V	
4.	DC Voltage, Sound AMP	17.4	18.0	18.6	V	
5.	DC Voltage, Stand By	4.6	5.0	5.4	V	
6.	DC Voltage, Scaler(HD2)	3.1	3.3	3.5	V	I/O port supply
7.	DC Voltage, Scaler(HD2)	1.6	1.8	1.9		Internal core supply
8.	DC Voltage, ADC	3.1	3.3	3.5	V	AD9883
9.	DC Voltage, VCD 5 V	4.7	5	5.3	V	VPX3226
10.	DC Voltage, VCD 3.3V	3.1	3.3	3.5	V	
11.	DC Voltage, Micom	4.7	5	5.3	V	
12.	DC Voltage, Tuner	4.75	5.00	5.25	V	
	DC Voltage, Tuner	31.5	33.0	34.5	V	

7. External Interface

- AV Input

No	Item	Min	Typ	Max	Unit	Remark
1	AV Video Out Level	0.85	1.0	1.15	VPP	
2	AV Video Sync Out Level	0.24	0.29	0.32	Vpp	
3	AV Burst Out Level	0.14	0.28	0.35	Vpp	
4	AV Video Out Frequency Charactristic	3.0			MHz	
5	AV Video Out S/N	40.0			dB	
6.	AV Audio In S/N, L/R	43.0			dB	
7.	AV Audio In Frequency Response, Low	80.0			Hz	
8.	AV Audio In Frequency Response, High	7.0	10.0	15.0	kHz	
9.	AV Audio In Distortion			2.0	%	
10.	AV Audio In Max Distortion			10.0	%	
11.	AV Audio In Level, L/R	0.3	0.4	0.5	Vrms	
12.	AV Audio In Crosstalk, L/R	40.0			dB	
13	AV Audio Out Level, L/R	0.3	0.4	0.5	Vrms	
14	AV Audio Out Crosstalk, L/R	20.0			dB	
15	AV Audio Out S/N, L/R	43.0			dB	
16	AV Audio Out Frequency Response	Low High	80.0 8.0	10.0 19.0	Hz kHz	
17	AV Audio Out Distortion			2.0	%	
18.	AV Audio Dynamic Range	2.00			Vpp	
19.	Component Video Input Level (Y, CB/PB, CR/PR)	0.6	0.7	0.8	Vpp	75 ohm (480i,480p,720p,1080i)
20.	RGB/HV Input Level	0.6	0.7	0.8	Vpp	75 ohm

8. General Specifications

No	Item	Min	Typ	Max	Unit	Remark
1	Active Screen Size		800.4(diagonal)		mm	29.53 inches
2	Outline Dimension		760.0(H)x450.0(V)x48.0(D)		mm	
3	Pixel Pitch		170.25 μm x 510.75 μm xRGB		μm	
4	Pixel Format		1366(H)x768(V) stripe arrangement			
5	Color Depth		8bit 16.7		Mbit	
6	Luminance ,White		500 (center 1 point typ)		cd/m ²	
7	Viewing Angle (CR>10)		R/L 176(Typ),U/P 176(Typ)		degree	
8	Power Consumption		88.7		Watt	
9	Weight		7.2		kg	
10	Display Operating Mode		Transmissive mode ,normally black			
11	Surface Treatment		Hard coating (3H)			
12	Altitude	Operating Storage/Shipment	0 - 14,000 0 - 40,000		feet	4,267.2 m 12,192.0 m

9. Electro Optical Characteristic Specifications

No	Item		Min	Typ	Max	Unit	Remark
1	Contrast Ratio		350	500		C	It measured at center point
2	Surface Luminance, White		380	400		Cd/m ²	Full white
3	Luminance Variation				1.3		
4	Response Time	Tr (Rising time)		8	12	msec	
5	Color coordinate		RED X Y	0.640 0.343	Typ -0.03	Typ +0.03	Full Pattern
			GREEN X Y	0.275 0.605			
			BLUE X Y	0.145 0.065			
			WHITE X Y	0.271 0.279			
6	Viewing Angle (CR>10)		X axis right($\phi =0$)	85	88		degree
			X axis left($\phi =180$)	85	88		
			Yaxis up ($\phi =90$)	85	88		
			Z axis down($\phi =270$)	85	88		

10. Mechanical specification

No	Item	Content			Remark
1	Product Dimension	Width (W)	Length (D)	Height (H)	
		922	182	545.3	With Stand, Include D-box & Rear cover
		922	287.5	613.4	With Stand
2	Product Weight	30.3Kg			

11. Factory default condition

No	Item		Condition	Remark
1	Input Mode		N.A.(Specified by D-Box)	
2	Volume Level		N.A.(Specified by D-Box)	
3	Mute		Off	
4	Aspect Ratio		16:9(Specified by D-Box)	
5	Picture	Ez Picture		Normal
		User Control	Contrast	100
			Brightness	50
			Colour	60
			Sharpness	60
			Tint	0
		XD		On
6	Sound	Color Temperature		Medium
		EZ Sound		Normal
		Audio Language		-
		User Control	Balance	0
			Treble	50
			Bass	50
		Ez SoundRite		Off
		Sap		Stereo
		Front Surround		Off
		TV Speaker		On
7	Timer	Balance		0
		Auto Clock		On/Eastern
		Manual Clock		Off
		Off Timer/On Timer		Off
8	Option	Sleep Timer / Auto Off		
		Aspect Ratio		16:9
		Caption		Off
9	Channel Memory	Front Display		Off
		Empty channel map		

ADJUSTMENT INSTRUCTION

1. Application Object

This instruction is for the application to the LCD TV.

2. Designation.

2.1 As this chassis is a non-charging type of chassis for insulation of the power supply part, it may not use an insulation type of transformer but it is better to adjust after operating an insulation type of transformer between the power supply line and the input side of chassis.

2.2 Adjustment must be done according to accurate order. However, order may be changed considering mass production.

2.3 Adjustment must be done in environment of ambient temperature of $25 \pm 5^{\circ}\text{C}$, RH $65 \pm 10\%$ unless specially designated.

2.4 For adjustment, input voltage of the receiver must be maintained at 110V, 60Hz.

2.5 The receiver must be maintained in preliminary operation status for about 15 minutes before adjustment unless specially designated.

● Perform preliminary operation after receiving 100% White Pattern (06CH).

(Or 3. White Pattern status of Ex-Adjust)

● White Pattern entry method

A) Enter into Ez-Adjust by pressing the ADJ key on the adjustment R/C.

B) 100% FULL WHITE PATTERN appears if pressing the OK (■) key after selecting the 3.WHITE PATTERN with the CH + / - KEY.

* It is possible to heat run the set without a separate signal generator in this mode.

Caution : Care must be taken as afterimage phenomena may occur about the black level part of screen If leaving pause image turned on for more than 20 minutes (especially inner digital pattern (13 CH), Cross Hatch Pattern (09CH) with significant black/white contrast).

3. Total Adjustment

3.1 EDID (Extended Display Identification Data) / DDC (Display Data Channel) download

3.1.1 Summary

: This function was created by VESA and is intended to realize "Plug and Play" that the computer automatically communicates with the monitor through mutual change of information and re-configure user environment so than the user can immediately use the computer without providing direct command to the PC or monitor.

3.2 AD9883A-Set Adjustment

3.2.1 Summary

: The AD9883A-Set Adjust is function that the A/D converter automatically sets up optimum blacklevel and gain and compensate RGB deviation.

- DVI EDID Data

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	01	01	01	01	01
10	03	0E	01	03	98	45	27	96	08	E8	AA	A1	57	49	9C	25
20	10	48	4B	4F	CE	00	31	4F	31	4F	3B	C0	45	40	61	45
30	01	01	01	01	01	40	C3	1E	00	20	41	00	20	30	10	60
40	13	00	B9	88	21	00	00	1E	00	00	00	FC	00	20	20	20
50	20	20	20	20	20	20	20	20	20	0A	00	00	00	FD	00	38
60	4B	1E	3E	08	00	0A	20	20	20	20	20	20	20	00	00	FC
70	00	33	32	4C	58	33	44	43	20	20	20	20	20	20	00	5C

- RGB EDID Data

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	01	01	01	01	01
10	03	0E	01	03	18	45	27	96	08	E8	AA	A1	57	49	9C	25
20	10	48	4B	AF	CE	00	31	4A	31	4F	3B	C0	45	40	61	4F
30	01	01	01	01	01	40	C3	1E	00	20	41	00	20	30	10	60
40	13	00	B9	88	21	00	00	1E	00	00	00	FC	00	20	20	20
50	20	20	20	20	20	20	20	20	20	0A	00	00	00	FD	00	38
60	4B	1E	3E	08	00	0A	20	20	20	20	20	20	20	00	00	FC
70	00	33	32	4C	58	33	44	43	20	20	20	20	20	20	00	D2

3.2.2 Adjustment Method

- A) Enter the 100% Vertical Color Bar Pattern (TVBAR_100) of the 720P Mode supported for entry of component and select entry selection to Component1 or Component2 and then select image to 'Normal'.
- B) After waiting for more than a second after receipt of signal, enter into 'Ez?Adjust' by pressing the ADJ Key on the Adjustment R/C. Adjustment is automatically done if pressing the (+) key after selecting the '1. AD9883A-Set'.
- C) If adjustment is normally completed, 'AD9883£≠Set' message is displayed, and if not normally completed, 'AD9883A Setup Error' message is displayed.
- D) If adjustment is completed, exit the adjustment mode by pressing the ADJ key.



<Adjustment Pattern : 720P Vertical Color Bar>

3.3 Color adjustment of main/subsidiary part

Color adjustment of main/subsidiary part is intended to reduce color difference of the main/subsidiary part in the PIP/POP/SPLIT Screen.

- A) After entering inner signal, enter into the 'Ez?Adjust' by pressing the ADJ key of the remote control for adjustment and select the '2.VPX3226' and enter into the Adjustment Mode by pressing the right key (►).
- B) The screen automatically becomes a TV 6CH SPLIT Screen if entering into the Adjustment and a window appears as below.

VPX3226	
1. Contrast(MAIN) ◀ 31 ►	
2. Contrast(Sub) ◀ 31 ►	

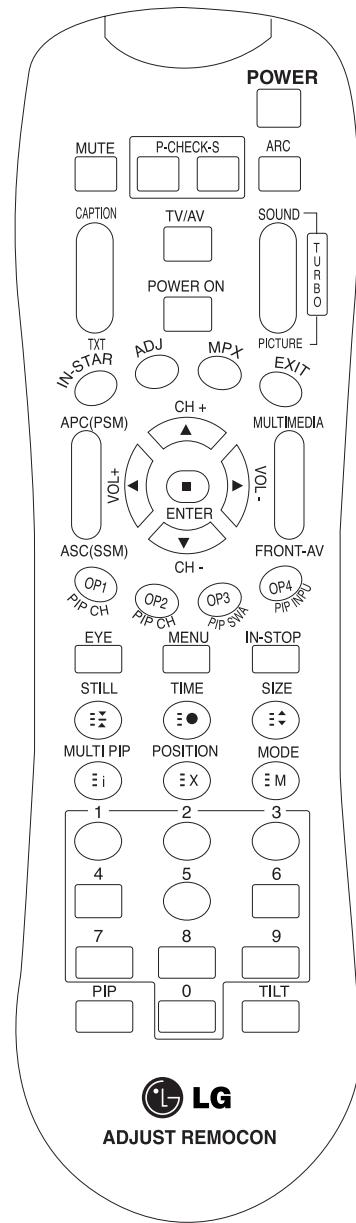
US 6CH	US 6CH
--------	--------

< Screen Adjustment Command Table. (RS-232) >

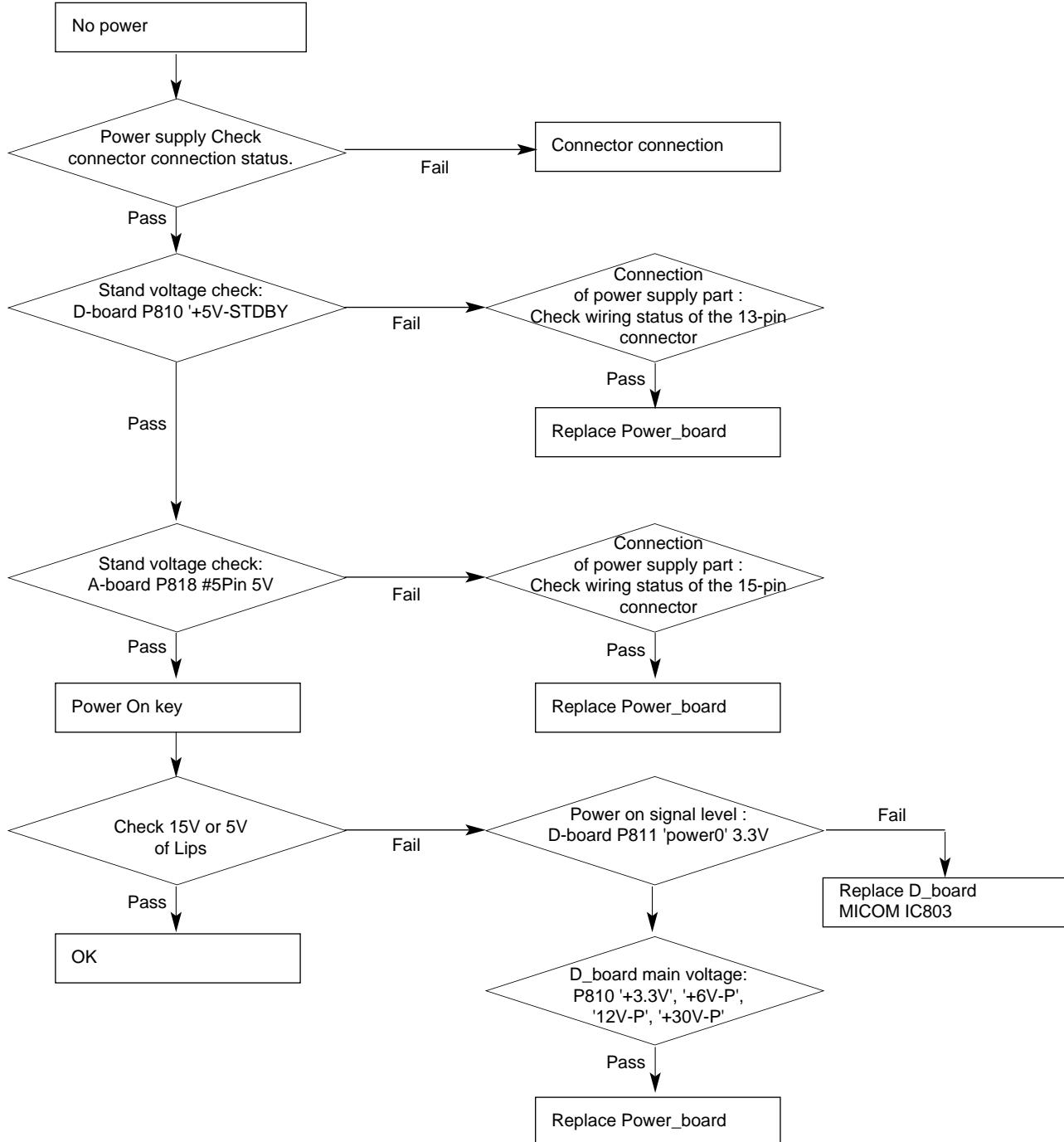
- C) Firstly adjust '1.Contrast (Main)' so that figure of "US 6CH" character of the left main screen is shown mostly clearly and vividly (so that saturation is not done) and set the '2.Contrast(Sub)' to same value. In this case, adjust it by using the volume +/- key.
- D) If adjustment is completed, exit the Adjustment Mode by pressing the ADJ key.

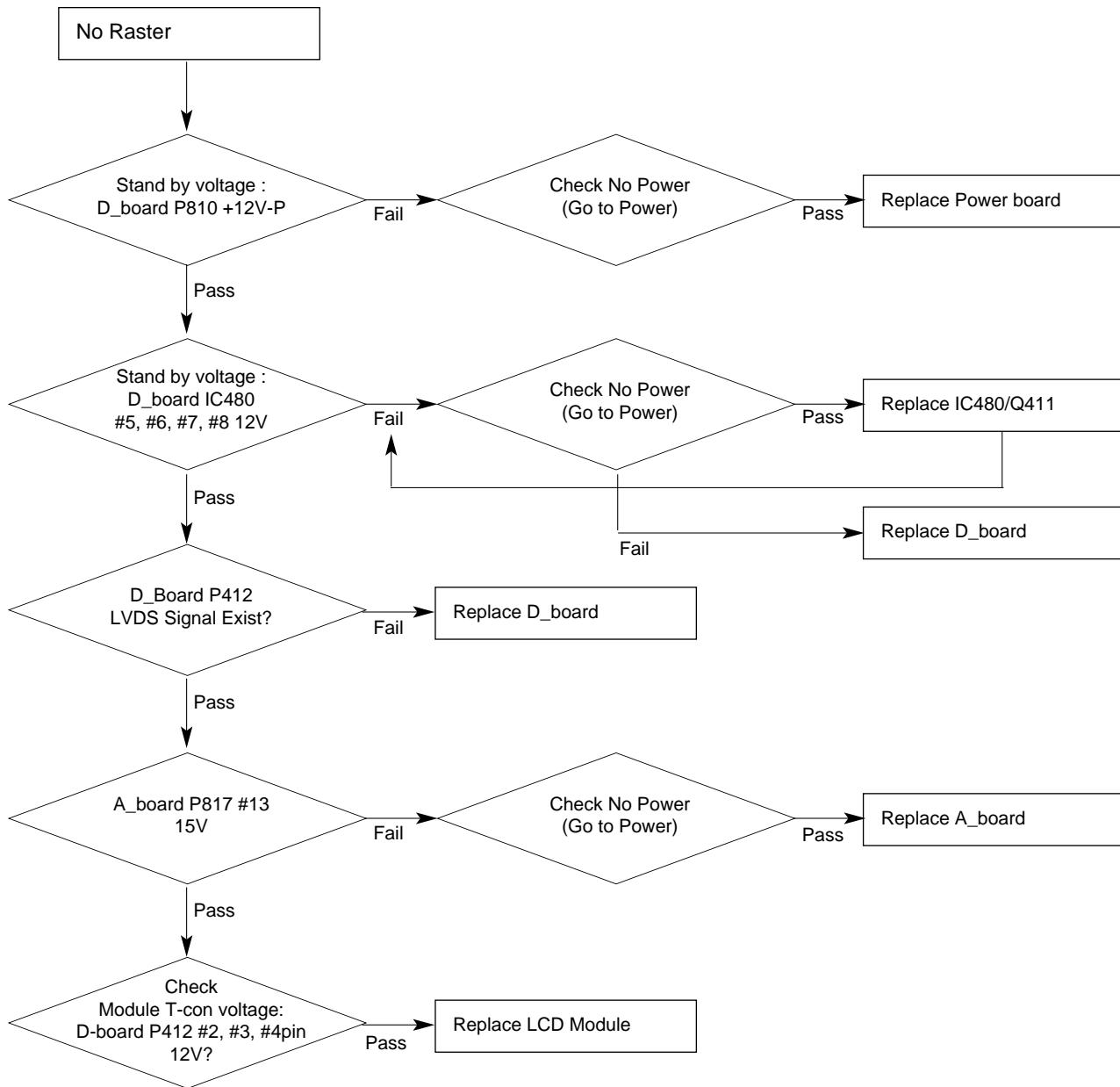
SVC REMOCON

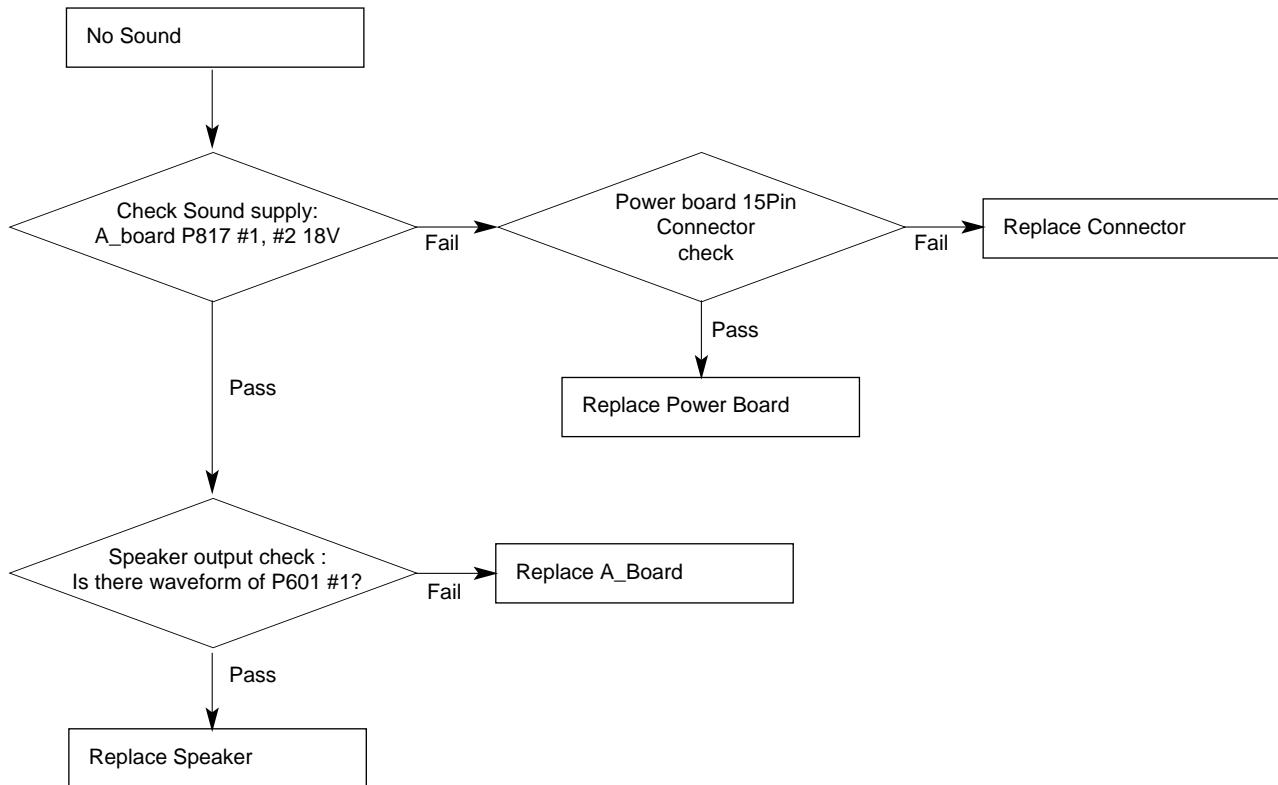
NO	KEY	FUNTION	REAMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets. To adjust the screen voltage (automatic): In-start → mute → Adjust → AV(Enter into W/B adjustment mode) W/B adjustment (automatic): After adjusting the screen → W/B adjustment → Exit two times (Adjustment completed)	Use the AV key to enter the screen W/B adjustment mode.
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMIDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH±	To move channel up/down or to select a function displayed on the screen.	
21	VOL±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	



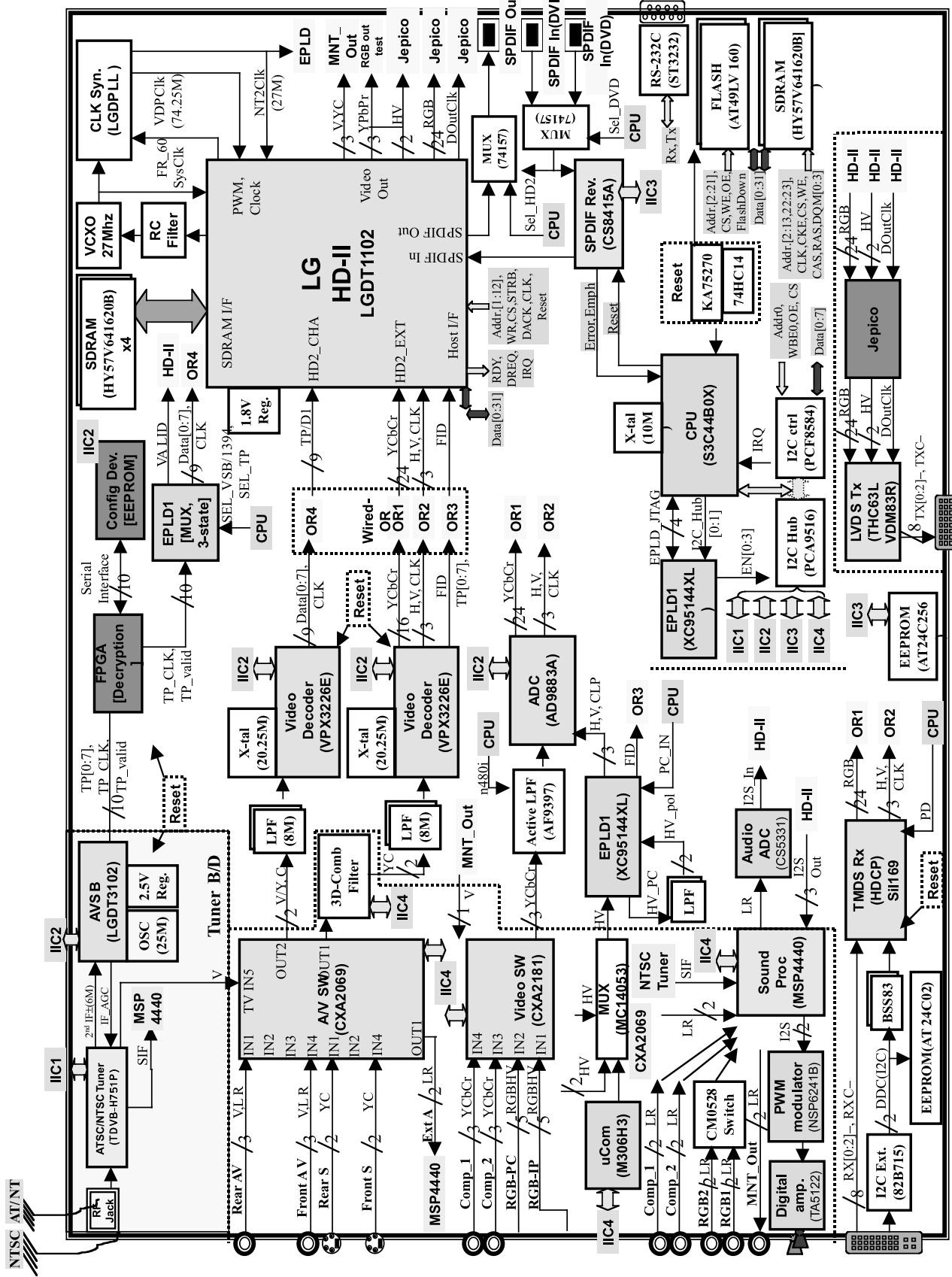
TROUBLESHOOTING







BLOCK DIAGRAM(LCD Built-In)



BLOCK DIAGRAM DESCRIPTION(MAIN)

ATSC/NTSC tuner (TDVB-001P) can receive both terrestrial analog and terrestrial digital signals.

But a NTSC tuner (6700NFNS06C) can receive terrestrial analog only. Therefore if you run two displays at the same time, it is not possible to see two digital channels.

A/V SW (CXA2069) is the IC that takes external input terminal signals and broadcast signals from the tuners and handles them selectively. Audio signals are sent to MSP4450. Video signals are sent to HD-II via two paths - VPX3226E on the upper side is used to handle sub displays, while VPX3225E on the lower side controls the main display.

To the lower side, signals are sent using an expensive 3D-comb filter with Y/C divided.

The video decoder (VPX3226E) is a chip that decodes input signals.

HD-II is a chip that controls nearly all video-related functions, including brightness, sharpness, video formatting and scaling. If digital broadcasting is available, it comes through TP, which can be controlled from HD-II.

Video SW (CXA2181) is an IC that outputs video signals selectively. The selected one is outputted through ADC (AD9883A) as a digital signal. uCom (M306H3) interfaces with the main CPU and primarily plays the role of controlling power supply, remote controller and timers. Thus, while the set is turned off, it sends time information to uCom for management.

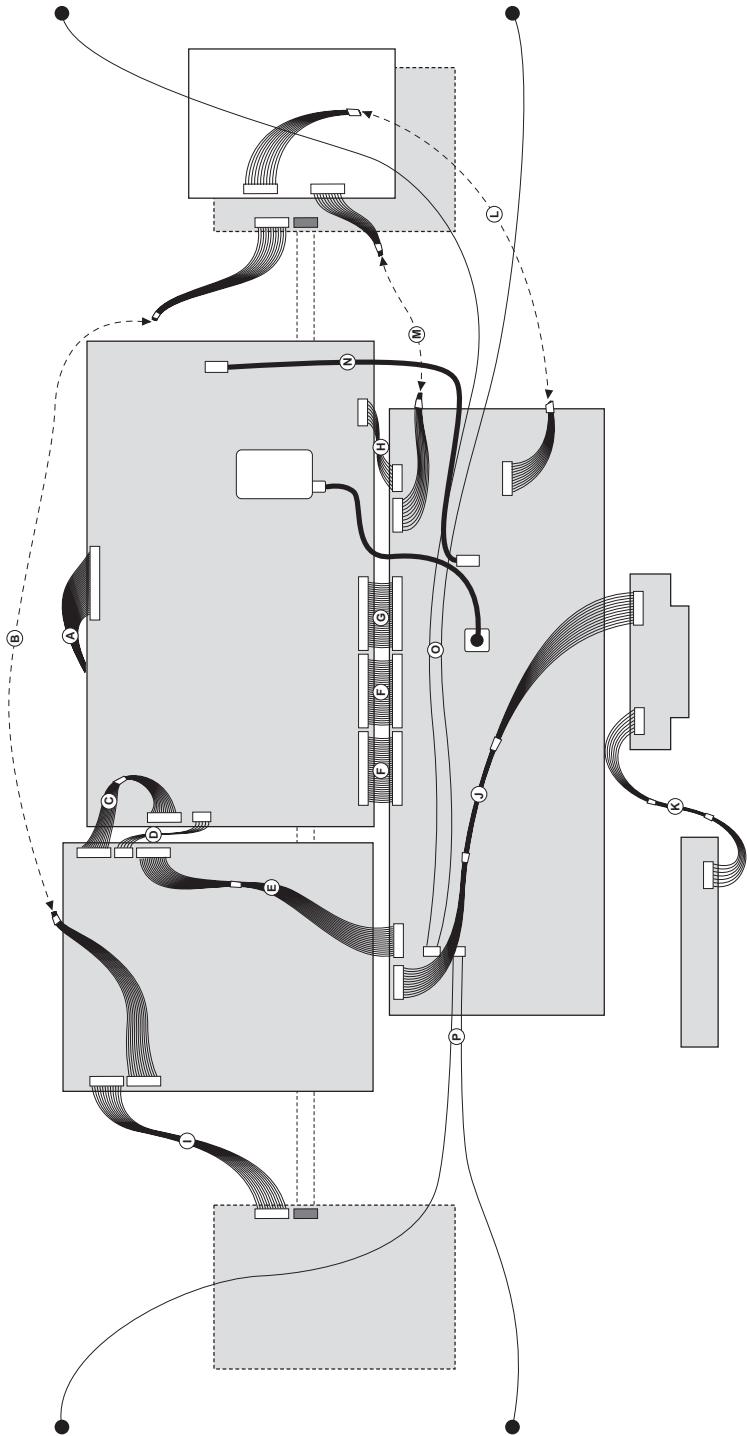
TMDS Tx (SiL169) is the display stage that sends video data to the display medium according to the TMDS protocol, and the TMSD receiver accepts it and outputs display.

CPU (S3C440BX) is the central processing IC, which controls most of the ICs.

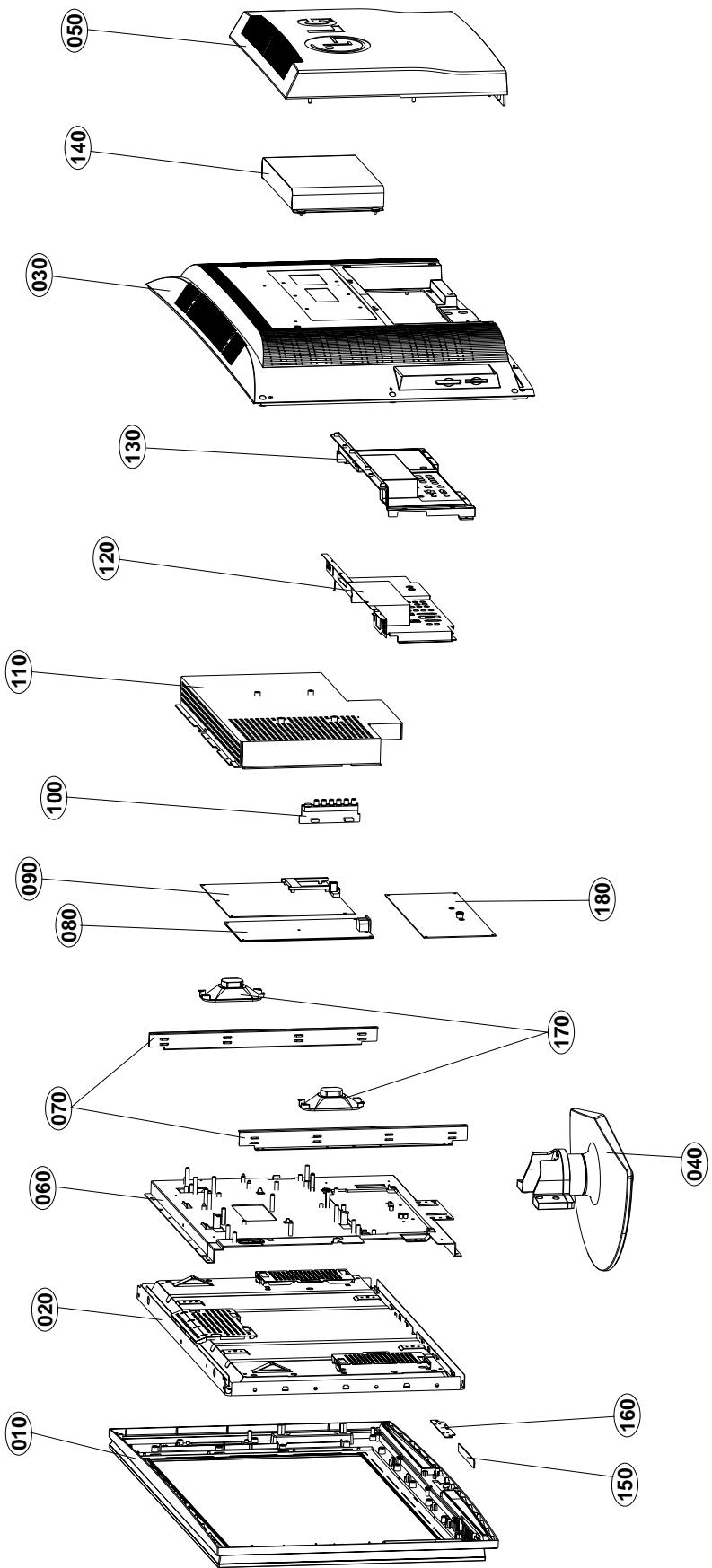
Decryption FPGA(Cyclone EP1C12F256C8) can decrypt the encrypted TP(Digital Tuner stream) to normal TP(non encrypted stream).

WIRING DIAGRAM

Wiring Part List	
Part No.	
A	6631T11020Z-30P
B	6631T20037D-12P
C	6631T25023R-13P
D	6631T25019W-5P
E	6631T25019X-15P
F	6631V10004A-31P
G	6631T11017J-31P
H	6631T25019U-7P
I	6631T20037E-12P
J	6631T20033N-12P
K	6631T20037N-7P
L	6631T20037W-11P
M	6631T25025E-10P
N	6631T11020V-20P
O	6631T25024G-3P
P	6631T25024H-4P



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
010	3091TKE034C	CABINET ASSEMBLY, 32LX3DC BRAND 3090TKE026 SET
	3091TKE034D	CABINET ASSEMBLY, 32LX3DC BRAND 3090TKE026 CSKD
	3091TKE034E	CABINET ASSEMBLY, 32LX3DCS BRAND 3090TKE026 SET
	3091TKE034F	CABINET ASSEMBLY, 32LX3DCS BRAND 3090TKE026 CSKD
020	6304FLP290A	LCD(LIQUID CRYSTAL DISPLAY), LC320W01-A6K6 LG PHILIPS TFT COLOR WXGA AIODC
	or 6304FLP181A	LCD(LIQUID CRYSTAL DISPLAY), LC320W01-A6K3 LG PHILIPS TFT COLOR AI ODC
030	3809TKE030E	BACK COVER ASSEMBLY, 32LX3DC 3808TKE025 SET
	3809TKE030F	BACK COVER ASSEMBLY, 32LX3DC 3808TKE025 CSKD
040	3043TKK252G	TILT SWIVEL ASSEMBLY, 32LX3DC STAND ASSY
	3043TKK252H	TILT SWIVEL ASSEMBLY, 32LX3DC CSKD STAND ASSY
	3043TKK252C	TILT SWIVEL ASSEMBLY, 32LX3DCS STAND ASSY
	3043TKK252F	TILT SWIVEL ASSEMBLY, 32LX3DCS CSKD STAND ASSY
050	3550TKK938A	COVER, 32LX3DC REAR COVER
	3550TKK938B	COVER, 32LX3DC CSKD REAR COVER\
060	4951TKK222C	METAL ASSEMBLY, FRAME METAL ASSY 32LX3DC
	4951TKK222F	METAL ASSEMBLY, FRAME METAL ASSY 32LX3DC CSKD
070	4950TKA210A	METAL, SIDE BRACKET 32LX1D
080	6871TPT303B	PWB(PCB) ASSEMBLY,POWER, DU/DN/DI-32LP10 POWER TOTAL BRAND DU(DCR) COMM - SH(D112)
090	3313TD3025B	MAIN TOTAL ASSEMBLY, 32LX3DC BRAND .
	33139D3007A	MAIN TOTAL ASSEMBLY, 32LX3DC-UA DIGITAL (PB-FREE)
100	6871TSTA84A	PWB(PCB) ASSEMBLY,SUB, 32LX3DC-UA SUB TOTAL BRAND (SIDE A/V)
110	4951TKK238E	METAL ASSEMBLY, FRAME REAR 32LX3DC
	4951TKK238F	METAL ASSEMBLY, FRAME REAR 32LX3DC CSKD
120	4815TKK046C	SHIELD ASSEMBLY, REAR SHIELD ASSY 32LX3DC
	4815TKK046F	SHIELD ASSEMBLY, REAR SHIELD ASSY 32LX3DC CSKD
130	3551TKK589C	COVER ASSEMBLY, 32LX3DC REAR AV BRACKET ASSY
	3551TKK589F	COVER ASSEMBLY, 32LX3DC CSKD REAR AV BRACKET ASSY
140	3141TZZ172A	CHASSIS ASSEMBLY, CONTROL BOX, 32LP1DC-U, LST-4100A, COMMERCIAL,KIMIN
150	6871TSTA85A	PWB(PCB) ASSEMBLY,SUB, 32LX3DC-UA KEY CONTROL TOTAL BRAND ..
160	6871TSTA86A	PWB(PCB) ASSEMBLY,SUB, 32LX3DC-UA IR&LIGHT SUB TOTAL BRAND .
170	6400GESF01A	SPEAKER,FULLRANGE, C112A02K1450 ESTEC FULL-RANGE(GENERAL) 8OHM 10/15W .DB 110 32LG10
180	6871TSTD06A	PWB(PCB) ASSEMBLY, 32LX3DC-UA ANALOG SUB TOTAL BRAND PB

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic
CQ : Polyester
CE : Electrolytic
CF : Fixed Film

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RH : CHIP, Metal Glazed(Chip)
RR : Drawing

DATE: 2005. 07. 10.				
MAIN BOARD				
CAPACITOR				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C100	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C101	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C102	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C103	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C104	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C105	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C106	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C107	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C110	OCH5821K416	820PF 50V 5% NP0 2012 R/TP
		C111	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C112	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C116	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C118	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C119	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C120	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C122	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C126	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C127	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C128	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1302	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1305	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1306	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1313	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1326	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C133	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1400	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C201	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C202	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C203	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C204	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C205	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C207	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C208	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C209	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C210	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C211	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C212	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C214	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C215	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C220	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C221	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C222	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C223	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C224	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C225	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C226	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C227	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C228	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C229	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C230	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C231	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C232	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2005. 07. 10.				
MAIN BOARD				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C233	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C234	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C235	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C236	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C237	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C239	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C240	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C242	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C243	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C247	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C248	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C249	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C250	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C251	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C252	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C253	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C254	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C255	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C256	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C258	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C259	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C260	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C261	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C262	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C265	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C266	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C267	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C268	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C269	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C276	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C277	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C278	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C279	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C280	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C281	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C282	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C283	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C284	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C285	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C286	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C287	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C288	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C289	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C290	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C291	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C292	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C293	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C294	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C295	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C296	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C297	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C298	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C299	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C305	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C851	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C883	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C920	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C921	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C923	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C925	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C926	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD12	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD15	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD18	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD20	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD27	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		CD36	0CH3105F946	"1UF 16V 80%, -20% F(Y5V) 201"
		CD4	0CK225DH94A	"2.2UF 2012 25V 80%, -20% F(Y"
		CD7	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C108	0CH6220K416	22PF 2012 50V 5% NP0 -
		C109	0CH6220K416	22PF 2012 50V 5% NP0 -
		C1205	0CH6150K416	15PF 2012 50V 5% NP0 R/TP
		C1206	0CH6150K416	15PF 2012 50V 5% NP0 R/TP
		C1350	0CH6080K116	8PF 2012 50V 0.5 PF C0G R/T
		C306	0CH6030K116	3PF 2012 50V 0.5 PF NP0 R/T
		C307	0CH6030K116	3PF 2012 50V 0.5 PF NP0 R/T
		C311	0CH2473K516	47000PF 50V 10% B(Y5P) 2012
		C359	0CH6030K116	3PF 2012 50V 0.5 PF NP0 R/T
		C360	0CH6030K116	3PF 2012 50V 0.5 PF NP0 R/T
		C363	0CH2473K516	47000PF 50V 10% B(Y5P) 2012
		C450	0CH6080K116	8PF 2012 50V 0.5 PF C0G R/T
		C820	0CH6220K416	22PF 2012 50V 5% NP0 -
		C821	0CH6220K416	22PF 2012 50V 5% NP0 -
		C856	0CH6221K416	220PF 2012 50V 5% NP0 -
		C865	0CH6220K416	22PF 2012 50V 5% NP0 -
		C866	0CH6220K416	22PF 2012 50V 5% NP0 -
		C879	0CH2334F566	0.33UF 16V 10% X7R 2012 R/T
		C886	0CH6470K416	47PF 2012 50V 5% NP0 R/TP
		C888	0CH6470K416	47PF 2012 50V 5% NP0 R/TP
		C890	0CH6470K416	47PF 2012 50V 5% NP0 R/TP
		C1309	0CH6470K416	47PF 2012 50V 5% NP0 R/TP
		C1310	0CH6331K416	330PF 2012 50V 5% NP0 R/TP
		C1330	0CH6050K116	5PF 2012 50V 10% NP0 R/TP
		C1331	0CH6220K416	22PF 2012 50V 5% NP0 -
		C1336	0CH6220K416	22PF 2012 50V 5% NP0 -
		C1351	0CH6560K416	56PF 2012 50V 5% NP0 -
		C142	0CH6221K416	220PF 2012 50V 5% NP0 -
		C143	0CH6331K416	330PF 2012 50V 5% NP0 R/TP
		C300	0CH2473K516	47000PF 50V 10% B(Y5P) 2012
		C301	0CH2102K516	1000PF 50V 10% B(Y5P) 2012
		C313	0CH2473K516	47000PF 50V 10% B(Y5P) 2012
		C314	0CH2473K516	47000PF 50V 10% B(Y5P) 2012
		C315	0CH2473K516	47000PF 50V 10% B(Y5P) 2012
		C357	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C358	0CH2102K516	1000PF 50V 10% B(Y5P) 2012
		C470	0CH6050K116	5PF 2012 50V 10% NP0 R/TP
		C471	0CH6050K116	5PF 2012 50V 10% NP0 R/TP
		C472	0CH6050K116	5PF 2012 50V 10% NP0 R/TP
		C473	0CH6050K116	5PF 2012 50V 10% NP0 R/TP
		C474	0CH6050K116	5PF 2012 50V 10% NP0 R/TP
		C636	0CH6050K116	5PF 2012 50V 10% NP0 R/TP
		C684	0CH6220K416	22PF 2012 50V 5% NP0 -
		C686	0CH6220K416	22PF 2012 50V 5% NP0 -
		C817	0CH6561K416	560PF 2012 50V 5% NP0 R/TP
		C838	0CH2334F566	0.33UF 16V 10% X7R 2012 R/T
		C845	0CH2334F566	0.33UF 16V 10% X7R 2012 R/T
DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C850	0CH2334F566	0.33UF 16V 10% X7R 2012 R/T
		C825	0CE227DK618	220UF STD 50V M FL TP5
		C829	0CE227DK618	220UF STD 50V M FL TP5
		C1201	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C124	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C125	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1300	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1301	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C1303	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1304	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C1307	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C1317	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C132	0CH8105K691	1UF 50V 20% 105STD (CYL) R/
		C1320	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C1324	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C1327	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C1328	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1337	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C1352	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD)
		C1353	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C1355	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD)
		C1356	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C1401	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD)
		C1406	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C1407	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C1409	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C1410	0CE476WK6DC	47UF MVK 50V 20% R/TP(SMD)
		C1414	0CH8477F691	470UF MVK 16V 20% SMD R/TP(
		C1415	0CH8477F691	470UF MVK 16V 20% SMD R/TP(
		C206	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C302	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) S
		C312	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C346	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C364	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C368	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) S
		C371	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C384	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C386	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C393	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C394	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C397	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C398	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C406	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C407	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C416	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C420	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C422	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C424	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C430	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C442	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C504	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD)
		C550	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) S
		C555	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) S
		C601	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C622	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C624	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C626	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C628	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C637	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C639	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C643	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C677	0CH8476F691	47UF 16V 20% 105STD (CYL) R

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C801	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C802	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C804	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C806	OCE476VK6DC	47UF MV 50V 20% R/TP(SMD) S
		C807	OCE226VF6DC	22UF MV 16V 20% R/TP(SMD) S
		C812	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C813	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C814	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C815	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD)
		C827	OCE476VK6DC	47UF MV 50V 20% R/TP(SMD) S
		C830	OCE476VK6DC	47UF MV 50V 20% R/TP(SMD) S
		C833	OCH8477F691	470UF MVK 16V 20% SMD R/TP(
		C834	OCH8477F691	470UF MVK 16V 20% SMD R/TP(
		C837	OCH8476F691	47UF 16V 20% 105STD (CYL) R
		C840	OCH8476F691	47UF 16V 20% 105STD (CYL) R
		C842	OCH8476F691	47UF 16V 20% 105STD (CYL) R
		C844	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C847	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C849	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C852	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C869	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C875	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD)
		C878	OCH8476F691	47UF 16V 20% 105STD (CYL) R
		C881	OCH8226F691	22UF 16V 20% 105STD (CYL) R
		C884	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C918	OCH8106F691	10UF 16V 20% 105STD (CYL) R
		C919	OCH8476F691	47UF 16V 20% 105STD (CYL) R
		C922	OCH8106F691	10UF 16V 20% 105STD (CYL) R
		CD2	OCE476SF6DC	47UF MVG 16V 20% SMD R/TP
		CD43	OCE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
		CD44	OCH8106F691	10UF 16V 20% 105STD (CYL) R
		CD47	OCE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
DIODEs				
		D601	ODRSE00018A	SRV05-4.TC SEMTECH R/TP SOT
		D601	ODRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S-Non Pb-free
		D602	ODRSE00018A	SRV05-4.TC SEMTECH R/TP SOT
		D602	ODRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S-Non Pb-free
		D603	ODRSE00018A	SRV05-4.TC SEMTECH R/TP SOT
		D603	ODRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S-Non Pb-free
		D604	ODRSE00018A	SRV05-4.TC SEMTECH R/TP SOT
		D604	ODRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S-Non Pb-free
		D811	ODS181009AA	KDS181 TP KEC SOT-23 80V
		D100	ODD184009AA	KDS184 TP KEC - 85V - - 3
		D410	ODS226009AA	KDS226 TP KEC - 80V - - 4NS
		D600	ODD184009AA	KDS184 TP KEC - 85V - - 3
		D611	ODS226009AA	KDS226 TP KEC - 80V - - 4NS
		D612	ODS226009AA	KDS226 TP KEC - 80V - - 4NS
		D613	ODS226009AA	KDS226 TP KEC - 80V - - 4NS
		D614	ODS226009AA	KDS226 TP KEC - 80V - - 4NS
		D615	ODS226009AA	KDS226 TP KEC - 80V - - 4NS
		D616	ODS226009AA	KDS226 TP KEC - 80V - - 4NS
		D617	ODS226009AA	KDS226 TP KEC - 80V - - 4NS
		D618	ODS226009AA	KDS226 TP KEC - 80V - - 4NS
		D800	ODS226009AA	KDS226 TP KEC - 80V - - 4NS
		D801	ODS226009AA	KDS226 TP KEC - 80V - - 4NS
		D802	ODS226009AA	KDS226 TP KEC - 80V - - 4NS
ZD1301		ZD1301	ODZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
ZD1302		ZD1302	ODZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
ZD1303		ZD1303	ODZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
ZD1304		ZD1304	ODZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		ZD1305	ODZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
IC				
		IC500	OICB841500D	CS8415AR-CSR 28PIN SOIC R/T
		IC200	OICTMLG009A	LGDT1102 HD2 LG IC SBGA-43
		IC200	OICTMLG009D	LGDT1102 HD2 LEED FREE LG I-Non Pb-free
		IC315	OICTMLG013A	LGDT1901A LG IC 24P SSOP TR
		IC607	OICTMLG014A	LGDT3302 LG IC 100P TQFP TR
		IC101	OIZZTSZ667B	ATMEL 25P 32LX3DC-UA FLASH
		IC102	OIZZTSZ668B	ATMEL 25PINP 32LX3DC-UA FLA
		IC300	OILNRMN005A	VPX3226E MICRONAS 44 QFP TR
		IC308	OILNRMN005A	VPX3226E MICRONAS 44 QFP TR
		IC101	OIMMRAL053A	"AT49BV320C-70TU ATMEL 480,T"
		IC102	OIMMRAL053A	"AT49BV320C-70TU ATMEL 480,T"
		IC103	OIMMRSS041D	K4S641632H-TL75 SAMSUNG ELE
		IC103	OIMMRSS041G	"K4S641632H-UC75,LF SAMSUNG-Non Pb-free
		IC104	OIMMRSS041D	K4S641632H-TL75 SAMSUNG ELE
		IC104	OIMMRSS041G	"K4S641632H-UC75,LF SAMSUNG-Non Pb-free
		IC107	OIAL242561B	AT24C256W-10SI-2.7V 8P SOIC
		IC210	OIMMRSS041D	K4S641632H-TL75 SAMSUNG ELE
		IC210	OIMMRSS041G	"K4S641632H-UC75,LF SAMSUNG-Non Pb-free"
		IC211	OIMMRSS041D	K4S641632H-TL75 SAMSUNG ELE
		IC211	OIMMRSS041G	"K4S641632H-UC75,LF SAMSUNG-Non Pb-free"
		IC212	OIMMRSS041D	K4S641632H-TL75 SAMSUNG ELE
		IC212	OIMMRSS041G	"K4S641632H-UC75,LF SAMSUNG-Non Pb-free"
		IC213	OIMMRSS041D	K4S641632H-TL75 SAMSUNG ELE
		IC213	OIMMRSS041G	"K4S641632H-UC75,LF SAMSUNG-Non Pb-free"
		IC215	OIMMRSS041G	"K4S641632H-UC75,LF SAMSUNG-Non Pb-free"
		IC601	OIMMRAL014B	AT24C02N-10SI-2.7 ATMEL 8P
		IC803	OIMMR00037A	"M306H3FCFP RENESAS 116P,LQF"
		IC830	OIMCRAL006A	"AT24C16AN-10SU-2.7,LF ATMEL"
		ICD2	OIMMRAT006C	EPCS4S18N(PROGRAMED)PB FREE
		IC100	OIMCRSS016A	S3C44BOX01-EDRO SAMSUNG ELE
		IC108	OIMCRPH026A	PCA9516PW PHILIPS 16P TSSOP
		IC109	OIMCRPH026A	PCA9516PW PHILIPS 16P TSSOP
		IC110	OIMCRSG010A	ST3232CDR SGS-THOMSON SOP16
		IC314	OIMCRXL004A	"XC95288XL-10TQG144C,LF XIL"
		IC316	OIMCRCY002A	CY2309SXC-1HT CYPRESS SOIC
		IC603	OIMCRS5003A	SIL169CT100 SILICON IMAGE 1
		IC900	OIMCRJP001A	J-L003 JEPICO 176P QFP TRAY
		IC322	OIMI623200B	"M62320FP,I/O EXPANDER 16P S"
		IC301	OIPRPAD008B	"AD9883AKST(Z)-110,LF ANALOG"
		IC450	OITH638300B	THC63LVDM83R THINE ELECTRON
		IC450	OITH638300C	"THC63LVDM83R(F),LF THINE EL-Non Pb-free"
		ICF1	OIPRPAT002B	EP1C12F256C8 ALTERA 256P/BG
		ICF1	OIPRPAT002A	EP1C12F256C8N(PB FREE) ALTE-Non Pb-free
		IC602	OIPH827150A	P82B715T 8SOP R/TP IIC EXTE
		IC105	OIKE702900G	KIA7029AF SOT-89 TP 2.9V VO
		IC400	OIMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SO
		IC401	OIPRPM001A	MIC39100 MICREL 3P SOT223 R
		IC606	OIMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SO
		IC800	OIMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC801	OIMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC802	OIMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC820	OIKE704200J	KIA7042AF SOT-89 TP 4.2V VO
		IC910	OIPRPM001A	MIC39100 MICREL 3P SOT223 R
		ICD3	OIMCRFA020A	RC1587DT_36 FAIRCHILD 3P TO
		IC402	OIRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC805	OIRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC106	OIPH741400E	74HC14D 14SOP TP SHITTER TR
		IC503	OITO741570C	"TC74LCX157FT 16P,TSSOP TP Q"
		IC504	OIMCRFA014A	74F04SCX FAIRCHILD 14P SOIC

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
COIL & CORE & FILTER & INDUCTOR				
		B200	OLCML00002B	MLB-321611-0050P-N1 6A MAG
		B310	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B311	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B315	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		B400	OLCML00002B	MLB-321611-0050P-N1 6A MAG
		B402	OLCML00002B	MLB-321611-0050P-N1 6A MAG
		B403	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B550	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B551	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B601	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B612	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B620	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B800	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		B900	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		LD11	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		LD2	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		LD8	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		R408	6210TCE001A	HB-1S2012-080JT CERATEC 201
		B1	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		B2	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		B3	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		B303	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B304	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B305	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B306	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B307	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B312	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B313	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B314	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B4	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		B411	OLCML00002B	MLB-321611-0050P-N1 6A MAG
		B412	OLCML00002B	MLB-321611-0050P-N1 6A MAG
		B413	OLCML00002B	MLB-321611-0050P-N1 6A MAG
		B414	OLCML00002B	MLB-321611-0050P-N1 6A MAG
		B5	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		B510	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B6	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		B600	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B602	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B603	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B611	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B7	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		B801	OLCML00002B	MLB-321611-0050P-N1 6A MAG
		B802	OLCML00002B	MLB-321611-0050P-N1 6A MAG
		B803	OLCML00002B	MLB-321611-0050P-N1 6A MAG
		B804	OLCML00002B	MLB-321611-0050P-N1 6A MAG
		B805	OLCML00002B	MLB-321611-0050P-N1 6A MAG
		B806	OLCML00002B	MLB-321611-0050P-N1 6A MAG
		B901	OLCML00002A	MLB-321611-0120A-N1 MAG LAY
		B902	OLCML00002B	MLB-321611-0050P-N1 6A MAG
		F400	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F401	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F402	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F403	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F404	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F405	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F407	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F408	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		F410	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2
		F411	6200VJT006A	STC222D NIIGATA 50VOLT 4A 2
		F800	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
TRANSISTOR				
		Q100	OTR102008AA	KRA102S R/TP KEC SOT23 CHIP
		Q101	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q102	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q306	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q411	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q552	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q553	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q554	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q800	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q802	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q804	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q811	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q308	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q309	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q310	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q311	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q410	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q600	OTR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q601	OTR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q602	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q803	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q810	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		IC321	OTF492509AA	SI4925DY TP TEMIC 30V 6.1A
		IC460	OTF492509AA	SI4925DY TP TEMIC 30V 6.1A
RESISTORS				
		AR100	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5% R
		AR101	0RRZVTA001C	4.7K OHM 1 / 16 W 1608 5% R
		AR400	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 3
		AR401	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 3
		AR402	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR403	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 3
		AR404	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 3
		AR405	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 3
		AR406	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		AR407	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR408	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR600	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		AR601	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		AR602	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		AR603	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		AR604	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5%
		AR611	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR612	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		AR613	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/T
		R496	ORS0332J609	33 1W 5 TA52
		R107	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R109	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1117	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1118	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1119	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R115	ORH1003D622	100K OHM 1 / 10 W 2012 5.00
		R127	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R129	ORH3901D622	3.9K OHM 1 / 10 W 2012 5.00
		R130	ORH3901D622	3.9K OHM 1 / 10 W 2012 5.00
		R1308	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1326	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1344	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1362	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1363	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R137	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R138	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R1396	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R152	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R153	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R155	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R167	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R177	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R178	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1800	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1802	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1805	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1806	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R183	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R184	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R185	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R186	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R187	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R188	ORH3901D622	3.9K OHM 1 / 10 W 2012 5.00
		R192	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R193	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R194	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R195	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R197	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R208	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R210	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R212	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R218	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R227	ORH3900D622	390 OHM 1 / 10 W 2012 5.00%
		R228	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R233	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R243	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R244	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R247	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R249	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R251	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R257	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R258	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R259	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R260	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R261	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R262	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R263	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R264	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R267	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R269	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R271	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R273	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R275	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R301	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R352	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R354	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R361	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R362	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R384	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R391	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R392	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R393	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R395	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R396	ORH0682D622	68 OHM 1 / 10 W 2012 5.00%
		R398	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R399	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R409	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R411	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R421	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R425	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R513	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R514	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R558	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R559	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R560	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R561	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R562	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R563	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R564	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R565	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R603	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R604	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R605	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R606	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R607	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R615	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R616	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R641	ORH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R643	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R646	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R651	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R652	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R653	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R682	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R685	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R695	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R696	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R697	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R698	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R806	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R807	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R808	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R810	ORH3902D622	39K OHM 1 / 10 W 2012 5.00%

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R811	ORH2202D622	22K OHM 1 / 10 W 2012 5.00%
		R813	ORH6201D622	6.2K OHM 1 / 10 W 2012 5.00%
		R814	ORH3301D622	3.3K OHM 1 / 10 W 2012 5.00%
		R816	ORH1202D622	12K OHM 1 / 10 W 2012 5.00%
		R817	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R818	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R822	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R825	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R826	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R835	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R836	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R839	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R844	ORH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R845	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R848	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R851	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R852	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R854	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R864	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R869	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R872	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R874	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R875	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R878	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R885	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R887	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R888	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R889	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R890	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R891	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R897	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R909	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R911	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		RD10	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		RD13	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD14	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD15	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD39	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD40	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD41	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD9	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		RM800	ORH5100D622	510 OHM 1 / 10 W 2012 5.00%
		RM801	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		RM802	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R100	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R101	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R102	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1027	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R103	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R105	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R106	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R110	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R111	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1113	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R112	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1120	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1121	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R113	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R114	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R116	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R117	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R118	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R119	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R120	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R121	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R122	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R123	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R124	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R125	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R126	ORH1000D622	100 OHM 1 / 10 W 2012 5.00% D
		R1309	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R131	ORH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R1310	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1311	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1322	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1323	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1324	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1325	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1327	ORH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R1329	ORH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R133	ORH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R1330	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1331	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1332	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1334	ORH0272D622	27 OHM 1 / 10 W 2012 5.00%
		R1335	ORH0682D622	68 OHM 1 / 10 W 2012 5.00%
		R1342	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1345	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1346	ORH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R1349	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R135	ORH6201D622	6.2K OHM 1 / 10 W 2012 5.00
		R1350	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1351	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R1352	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1353	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1354	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1355	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1356	ORH4300D622	CHIP 430-J 1/10 W
		R1357	ORH4300D622	CHIP 430-J 1/10 W
		R1358	ORH4300D622	CHIP 430-J 1/10 W
		R1359	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R136	ORH6201D622	6.2K OHM 1 / 10 W 2012 5.00
		R1361	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1364	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1365	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1366	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1367	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1368	ORH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R1369	ORH1202D622	12K OHM 1 / 10 W 2012 5.00%
		R1370	ORH1202D622	12K OHM 1 / 10 W 2012 5.00%
		R1371	ORH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R1372	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1373	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1374	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R1375	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R1376	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R1377	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R1378	ORH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R1379	ORH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R1380	ORH1202D622	12K OHM 1 / 10 W 2012 5.00%
		R1381	ORH1202D622	12K OHM 1 / 10 W 2012 5.00%
		R1382	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1383	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R139	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1391	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1397	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1398	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1399	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R140	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R144	ORH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R145	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R146	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R147	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R148	ORH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R149	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R150	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R159	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R160	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1601	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1602	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1603	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R161	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R162	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R163	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R164	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R165	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R166	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R176	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R179	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R180	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1803	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1804	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R181	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R198	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R199	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R200	ORH3900D622	390 OHM 1 / 10 W 2012 5.00%
		R202	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R204	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R207	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R216	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R220	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R221	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R222	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R223	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R224	ORH0512D622	51 OHM 1 / 10 W 2012 5.00%
		R225	ORH0512D622	51 OHM 1 / 10 W 2012 5.00%
		R226	ORH0512D622	51 OHM 1 / 10 W 2012 5.00%
		R229	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R230	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R2300	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R2301	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R2302	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R2303	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R2305	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R2306	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R2308	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R231	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R2311	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R2312	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R232	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R234	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R235	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R245	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R246	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R248	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R252	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R254	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R255	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R256	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R265	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R266	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R268	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R270	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R272	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R300	ORH8200D622	820 OHM 1 / 10 W 2012 5.00%
		R302	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R303	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R304	ORH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R305	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R306	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R307	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R308	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R309	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R310	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R314	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R315	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R316	ORH2701D622	2.7K OHM 1 / 10 W 2012 5.00
		R317	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R318	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R319	ORH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R320	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R321	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R322	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R323	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R324	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R325	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R326	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R327	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R329	ORH1602D622	16K OHM 1 / 10 W 2012 5.00%
		R330	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R331	ORH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R332	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R333	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R334	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R335	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R336	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R337	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R338	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R339	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R340	ORH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R341	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R342	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R343	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R344	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R345	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R346	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R347	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R348	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R349	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R350	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R356	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R357	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R358	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R367	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R368	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R370	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R371	ORH6802D622	68K OHM 1 / 10 W 2012 5.00%
		R373	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R379	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R380	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R381	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R382	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R386	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R387	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R388	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R390	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R394	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R397	ORH0272D622	27 OHM 1 / 10 W 2012 5.00%
		R416	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R417	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R420	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R430	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R431	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R432	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R451	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R452	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R463	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R465	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R472	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R474	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R489	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R491	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R492	ORH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R493	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R494	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R502	ORH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R503	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R504	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R505	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R506	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R508	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R511	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R512	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R524	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R525	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R529	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R533	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R555	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R556	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R557	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R600	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R608	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R609	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R610	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R612	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R613	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R617	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R618	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R619	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R621	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R622	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R623	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R624	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R625	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R626	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R628	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R630	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R631	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R632	ORH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R633	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R635	ORH3000D622	300 OHM 1 / 10 W 2012 5.00%
		R637	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R638	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R639	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R640	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R642	ORH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R644	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R663	ORH3001D622	3K OHM 1 / 10 W 2012 5.00%
		R664	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R665	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R666	ORH0512D622	51 OHM 1 / 10 W 2012 5.00%
		R670	ORH1004D622	1M OHM 1 / 10 W 2012 5.00%
		R671	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R672	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R673	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R674	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R675	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R676	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R684	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R699	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R800	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R801	ORH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R802	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R803	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R804	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R805	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R812	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R815	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R820	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R824	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R827	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R828	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R829	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R830	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R831	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R832	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R833	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R837	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R838	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R840	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R841	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R842	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R843	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R846	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R847	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R849	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R850	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R855	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R856	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R857	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R858	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R859	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R860	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R861	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R862	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R865	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R867	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R870	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R871	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R873	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R876	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R877	ORH3300D622	330 OHM 1 / 10 W 2012 5.00%

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R879	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R880	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00%
		R881	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00%
		R882	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00%
		R883	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00%
		R884	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R893	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R895	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00%
		R899	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00%
		R900	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R901	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R902	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R903	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00%
		R904	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00%
		R905	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00%
		R906	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R907	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R908	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R910	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R912	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R913	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R914	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R915	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R916	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R917	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R918	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R919	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R920	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R921	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R922	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R962	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		RD1	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD16	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD17	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD18	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD19	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD2	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD20	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD21	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD22	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD23	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD24	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		RD25	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		RD26	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		RD29	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD3	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD30	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD31	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD32	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD33	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD34	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD35	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD36	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD37	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD38	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD4	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RD401	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD42	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD44	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD5	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD6	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		RD7	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		RD8	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
OTHERs				
		X820	6212AC2329A	CH-206 SUNNY 32.768KHZ +/-
		X100	6212AB2015E	HC-49/SM BUBANG 10.0MHZ +/-
		X300	6202VDT002E	SX-1SMD SUNNY RADIAL 202500
		SW100	6600VR1004A	SKHMPW 5P CHIP TACT J-ALPS
		X821	6202TTB004E	HC-49/U KONY RADIAL 10MHZ 3
		LED600	0DL23309AC	SAM2333 TP KWANG GREEN/RED
		IC312	6204B60001B	VCXO BUBANG 27MHZ +/- 100 P
		X601	6204B47985K	BMS-873R BUBANG 25MHZ +/- 5
		X900	6204B47985H	SCO-103 SUNNY 74.25MHZ +/-
		XD1	6204B60001B	VCXO BUBANG 27MHZ +/- 100 P
		TU101	6700NFNS04F	TDVL-H751P LG INOTEK MULTI
CONTROL BOARD				
		SW1101	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1102	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1103	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1104	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1105	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1106	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1107	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1108	140-313B	TACT 2LEAD 160G(TA) LG C&D
		R1101	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1102	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1103	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1104	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1105	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1106	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		ZD1201	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1202	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1203	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1204	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1205	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1206	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
ANALOG BOARD				
		C106	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C107	0CH6220K416	22PF 2012 50V 5% NP0 -
		C108	0CH6220K416	22PF 2012 50V 5% NP0 -
		C110	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C111	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C120	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C122	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C123	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C124	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1801	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1803	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1804	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1805	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1807	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1811	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1812	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C1815	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1817	0CH6220K416	22PF 2012 50V 5% NP0 -
		C1818	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1820	0CH6220K416	22PF 2012 50V 5% NP0 -

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1863	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1864	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1866	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1867	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C601	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C603	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C605	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C606	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C607	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C609	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C610	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C616	0CH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C646	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C647	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C648	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C649	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C650	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C652	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C654	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C655	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C656	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C657	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C662	0CH3223K516	22000PF 2012 50V 10% B(Y5P)
		C663	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C664	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C666	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C668	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C669	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C671	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C674	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C676	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C690	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C691	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C693	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C694	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C729	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C733	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C740	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C742	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C744	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C745	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C748	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C749	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C751	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C752	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C762	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C764	0CH2334F566	0.33UF 16V 10% X7R 2012 R/T
		C765	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C767	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C768	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C773	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C774	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C784	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C800	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C811	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C816	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C821	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C822	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C828	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C833	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C834	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C835	0CH3103K516	10000PF 50V 10% B(Y5P) 2012

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C838	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C839	0CH3105F946	"1UF 16V 80%,-20% F(Y5V) 201"
		C859	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C861	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C862	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C863	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C864	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C865	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C871	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C872	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C874	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C876	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C877	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C879	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C880	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C881	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C884	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C885	0CH6561K416	560PF 2012 50V 5% NP0 R/TP
		C886	0CH5821K416	820PF 50V 5% NP0 2012 R/TP
		C887	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C888	0CH2473K516	47000PF 50V 10% B(Y5P) 2012
		C889	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C890	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C892	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C893	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C894	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C895	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C896	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C903	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C904	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C928	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C929	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C931	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C932	0CH2152K516	1500PF 50V 10% B(Y5P) 2012
		C933	0CH2152K516	1500PF 50V 10% B(Y5P) 2012
		C934	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C935	0CH3822K516	8200PF 2012 50V 10% B(Y5P)
		C945	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C951	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C969	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C980	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C988	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C989	0CH6560K416	56PF 2012 50V 5% NP0 -
		C990	0CH6560K416	56PF 2012 50V 5% NP0 -
		D702	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D704	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D706	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		IC602	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		L102	0LC4732101A	4.7UH 10% 3216 R/TC FI-B321
		L103	0LC4732101A	4.7UH 10% 3216 R/TC FI-B321
		L602	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L603	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L604	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L605	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L606	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L611	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L614	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L709	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L713	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L715	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L716	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L718	6210TCE001G	HH-1M3216-501 CERATEC 3216M

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L719	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L802	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L803	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L804	OLC2232101A	22UH 10% 3216 R/TC FI-D3216
		L805	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L806	OLC4732101A	4.7UH 10% 3216 R/TC FI-B321
		L807	OLC2232101A	22UH 10% 3216 R/TC FI-D3216
		L808	OLC1032101A	10UH 10% 3216 R/TC FI-C3216
		L809	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L810	OLCML0005A	MLI-201209-5R6K MAG LAYERS
		L811	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L812	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L813	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L814	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L815	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L816	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L817	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L818	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L821	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L906	OLC2232101A	22UH 10% 3216 R/TC FI-D3216
		L907	OLC1020101A	1UH 10% 2012 R/TC FI-B2012-
		L908	OLC1020101A	1UH 10% 2012 R/TC FI-B2012-
		L912	OLC2232101A	22UH 10% 3216 R/TC FI-D3216
LP101		6210TCE001D	HB-1M2012-601JT CERATEC 201	
Q806		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
Q807		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
Q808		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
Q809		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
Q810		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
Q811		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
Q816		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
Q817		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
Q818		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
Q819		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
Q825		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
Q827		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
Q828		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
Q829		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
Q835		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
Q836		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
Q839		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
Q840		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
Q843		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
Q844		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
Q845		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
Q851		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
Q903		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
Q904		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
Q910		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
Q911		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
Q912		OTR102008AA	KRA102S R/TP KEC SOT23 CHIP	
Q913		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
Q914		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
Q915		OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -	
QP102		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
QP103		OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -	
R101		ORH1000D622	100 OHM 1 / 10 W 2012 5.00%	
R102		ORH1202D622	12K OHM 1 / 10 W 2012 5.00%	
R103		ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D	
R104		ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D	
R105		ORH7500D622	750 OHM 1 / 10 W 5% D R/TP	
R106		ORH0822D622	82 OHM 1 / 10 W 2012 5.00%	
DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R107	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R108	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R109	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R110	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R111	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R112	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R119	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R120	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R122	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R125	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R126	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R127	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R128	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R129	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R135	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R138	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R140	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R141	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R143	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R145	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R147	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R1601	ORH1500D622	150 OHM 1 / 10 W 2012 5.00%
		R1602	ORH1500D622	150 OHM 1 / 10 W 2012 5.00%
		R162	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R164	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R165P	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R166	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R168	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R169P	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R170	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R172	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R173	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R174	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R175	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R177	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R178	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1801	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1802	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1803	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1804	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1805	ORH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R1806	ORH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R1807	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R1808	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R1810	ORH5100D622	510 OHM 1 / 10 W 2012 5.00%
		R1811	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1814	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1817	ORH3600D622	CHIP 360-J 1/10 W
		R1818	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R1819	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1820	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1821	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1822	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R1827	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R1828	ORH3302D622	33K OHM 1 / 10 W 2012 5.00%
		R1829	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1831	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R1832	ORH3000D622	300 OHM 1 / 10 W 2012 5.00%
		R1833	ORH0682D622	68 OHM 1 / 10 W 2012 5.00%
		R1834	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1835	ORH1801D622	1.8K OHM 1 / 10 W 2012 5.00
		R1840	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1841	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R1843	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00%
		R1845	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1846	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R1848	ORH3302D622	33K OHM 1 / 10 W 2012 5.00%
		R1849	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1851	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1852	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R1855	ORH1801D622	1.8K OHM 1 / 10 W 2012 5.00
		R1862	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1863	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R1864	ORH0472D622	47 OHM 1 / 10 W 2012 5.00%
		R1865	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R1866	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R1867	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1868	ORH2700D622	270 OHM 1 / 10 W 2012 5.00%
		R1873	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1874	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R1875	ORH0472D622	47 OHM 1 / 10 W 2012 5.00%
		R1876	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R1877	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R1878	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1879	ORH2700D622	270 OHM 1 / 10 W 2012 5.00%
		R1882	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1884	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R1885	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1886	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1887	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R1893	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R1894	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R1895	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R1902	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1903	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R1904	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R1905	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R1906	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1907	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R1908	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R1909	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R1910	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1911	ORH0432D622	43 OHM 1 / 10 W 2012 5.00%
		R1926	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R304	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R601	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R646	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R661	ORH221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R663	ORH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R664	ORH221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R669	ORH221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R670	ORH221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R673	ORH101D622	1.0 1/10W 5 TA
		R674	ORH101D622	1.0 1/10W 5 TA
		R675	ORH101D622	1.0 1/10W 5 TA
		R678	ORH101D622	1.0 1/10W 5 TA
		R679	ORH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R691	ORH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R692	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R703	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R707	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R800	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R801	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R803	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R804	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R805	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R824	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R825	ORH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R826	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R827	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R828	ORH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R829	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R830	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R831	ORH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R832	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R833	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R834	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R836	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R837	ORH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R838	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R839	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R840	ORH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R841	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R842	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R843	ORH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R844	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R852	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R853	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R862	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R865	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R866	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R867	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R868	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R869	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R870	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R871	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R881	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R883	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R884	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R885	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R887	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R891	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R893	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R895	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R896	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R897	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R899	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R901	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R902	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R903	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R904	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R905	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R906	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R910	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R946	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R956	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R959	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R960	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R965	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R966	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R976	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R977	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R978	ORH1202D622	12K OHM 1 / 10 W 2012 5.00%
		R979	ORH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R980	ORH3901D622	3.9K OHM 1 / 10 W 2012 5.00
		R995	ORH0432D622	43 OHM 1 / 10 W 2012 5.00%

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R997	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R998	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R999	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		RP104	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		RP105	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RP106	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		RP107	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		RP108	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		RP109	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		RP110	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		RP111	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		ZD101	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD102	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD104	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD106	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD115	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD120	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD121	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD122	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD123	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD124	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD125	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD128	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD132	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD133	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD300	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD301	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD302	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD303	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD902	0DZ820009AK	UDZS 8.2B ROHM R/TP SOD323
		C1810	OCE105CK636	"1UF SHL,SD 50V 20% FM5 BP(D"
		C677	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE N
		C681	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE N
		C688	OCE108EJK18	"1000UF KMG,RD 35V 20%, -20%"
		C689	OCE108EJK18	"1000UF KMG,RD 35V 20%, -20%"
		C902	OCE4772J618	470UF KMF 35V 20% TP 5 FL
		L607	6140VB0022A	CPS-0810 GET 22UH 21.5TURN
		L608	6140VB0022A	CPS-0810 GET 22UH 21.5TURN
		L609	6140VB0022A	CPS-0810 GET 22UH 21.5TURN
		L610	6140VB0022A	CPS-0810 GET 22UH 21.5TURN
		R859	0RN1002F409	10K OHM 1/6 W 1.00% TA52
		X802	6212AB3004D	CSALF2M69G4ZF01-A3 MURATA 2
		C112	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C113	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C114	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C115	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C116	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C117	OCE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C130	OCH6220K416	22PF 2012 50V 5% NP0 -
		C131	OCH6220K416	22PF 2012 50V 5% NP0 -
		C132	OCH6220K416	22PF 2012 50V 5% NP0 -
		C1802	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1806	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C1809	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C1813	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C1814	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1821	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C1822	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C1862	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD)
		C1865	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD)
		C1868	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD)
		C1871	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD)

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C602	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C604	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD)
		C611	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C612	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C613	OCE226VF6DC	22UF MV 16V 20% R/TP(SMD) S
		C614	OCE226VF6DC	22UF MV 16V 20% R/TP(SMD) S
		C615	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C651	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD)
		C653	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD)
		C658	OCH3105F946	"1UF 16V 80%, -20% F(Y5V) 201"
		C659	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C660	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C661	OCH3105F946	"1UF 16V 80%, -20% F(Y5V) 201"
		C665	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C667	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C670	OCH2333K516	33000PF 50V 10% B(Y5P) 2012
		C672	OCH2333K516	33000PF 50V 10% B(Y5P) 2012
		C673	OCH2333K516	33000PF 50V 10% B(Y5P) 2012
		C675	OCH2333K516	33000PF 50V 10% B(Y5P) 2012
		C678	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C679	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C680	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C682	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C683	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C684	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C685	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C686	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C692	OCE476VK6DC	47UF MV 50V 20% R/TP(SMD) S
		C695	OCH5102K416	1000PF 50V 5% NP0 2012 R/TP
		C724	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C725	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C726	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C727	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD)
		C728	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C730	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C731	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C732	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C734	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C735	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C741	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C743	OCH8477F691	470UF MVK 16V 20% SMD R/TP(
		C763	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C766	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C770	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C771	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C781	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C782	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C783	OCH3334K946	"0.33UF 50V 80%, -20% F(Y5V)"
		C785	OCE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C786	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C787	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C801	OCE107VF6DC	100UF MV 16V 20% R/TP(SMD)
		C802	OCH5820K416	82PF 2012 50V 5% NP0 R/TP
		C803	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C804	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C805	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C806	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C807	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C808	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C809	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C810	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C812	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S

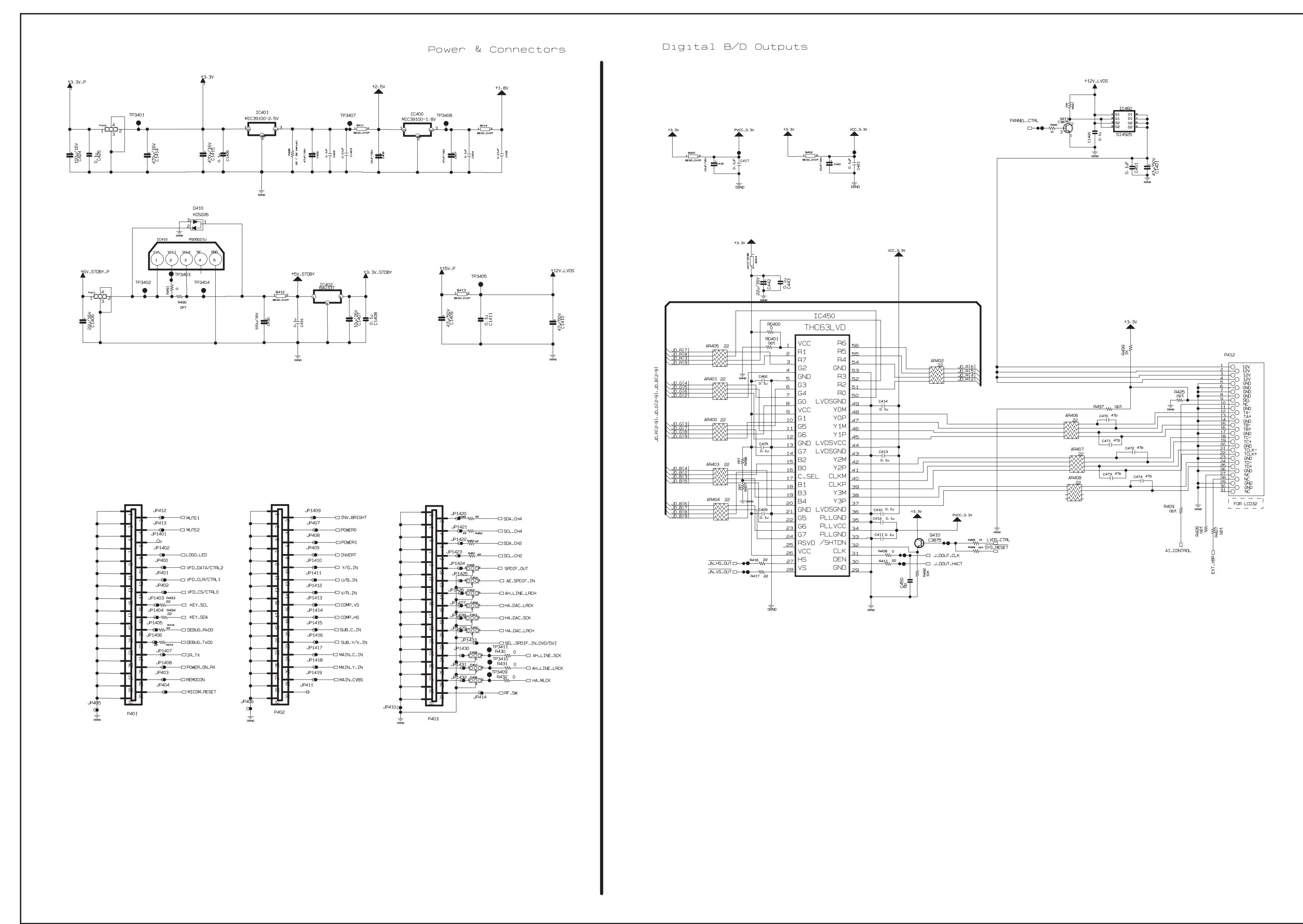
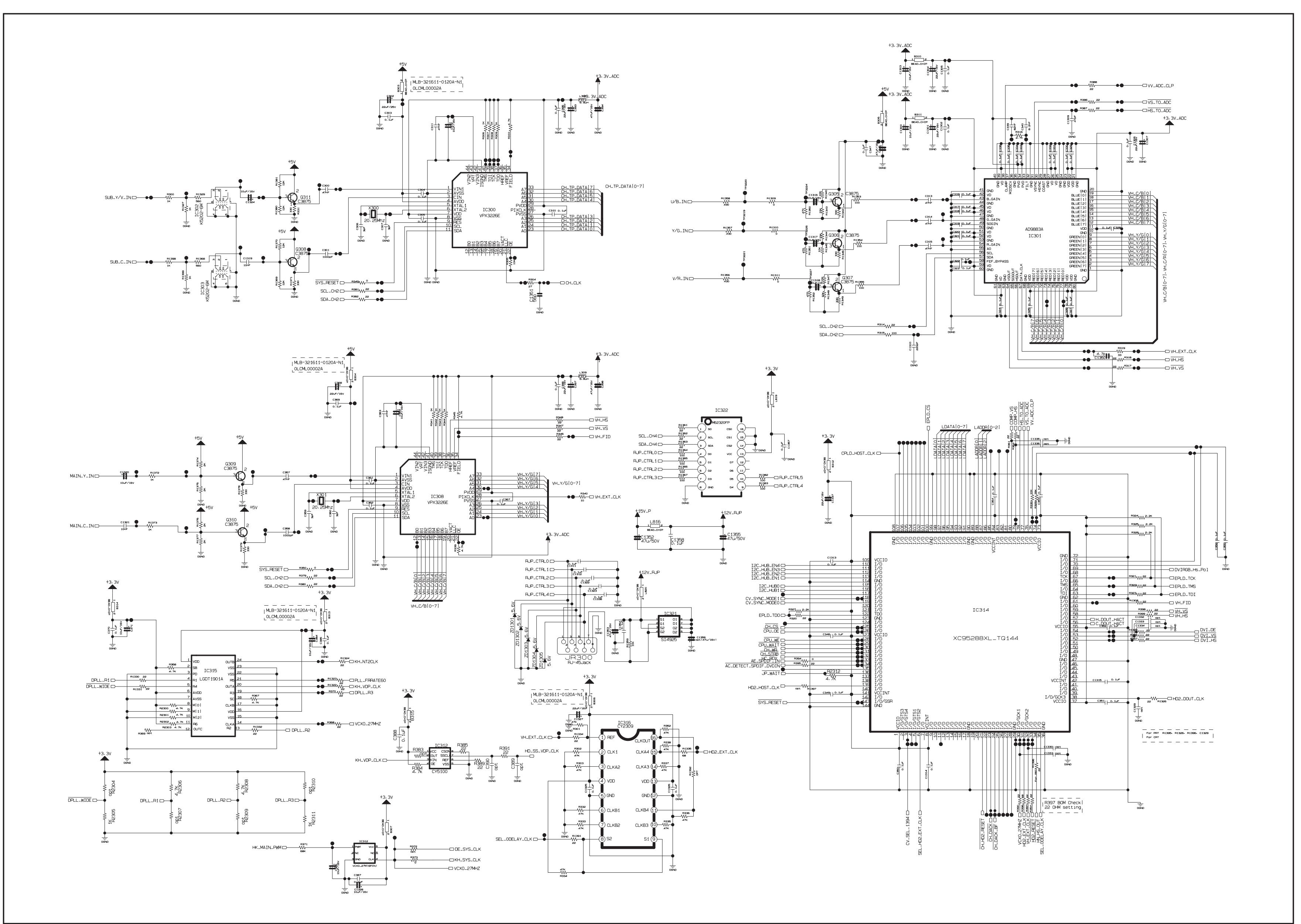
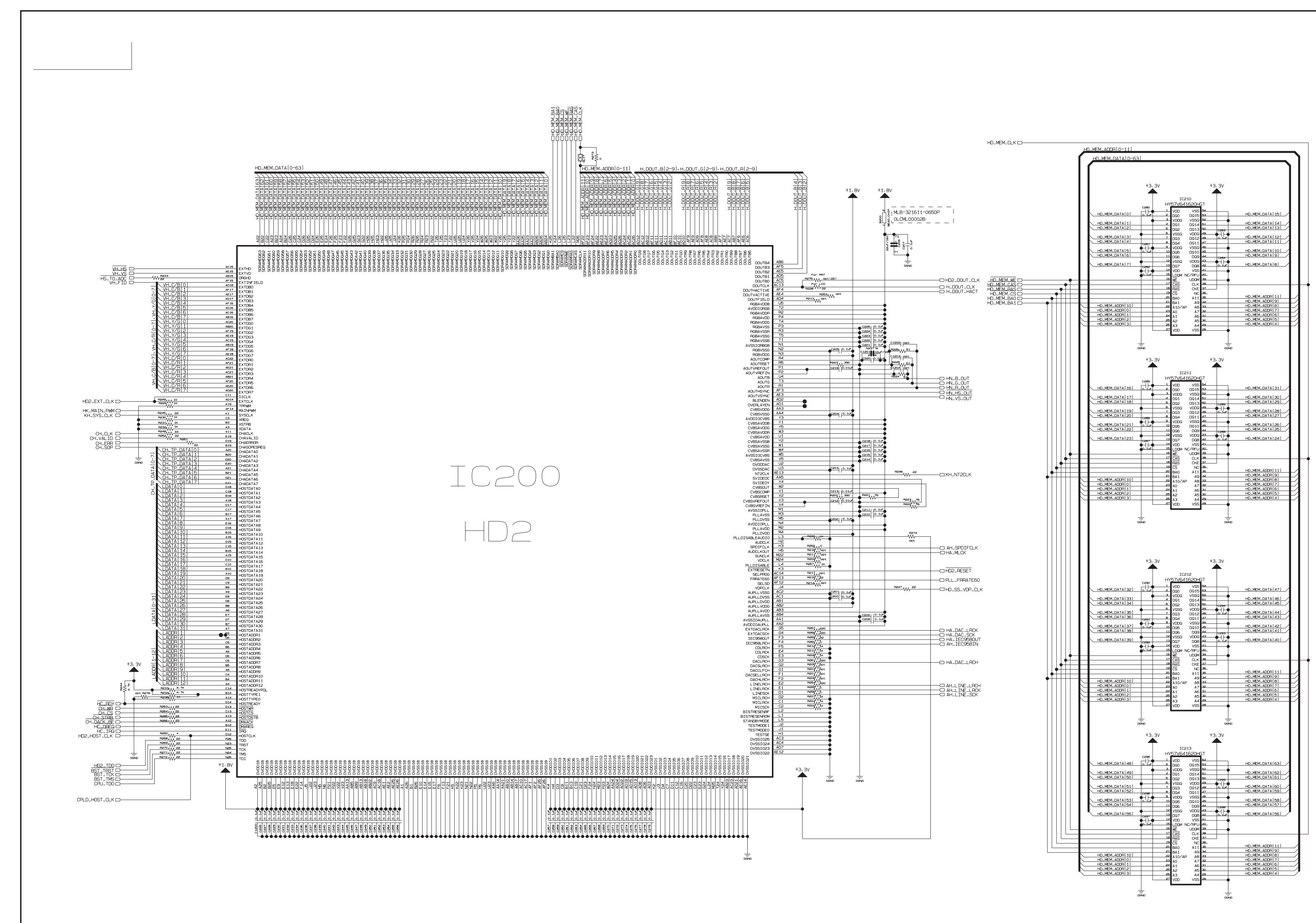
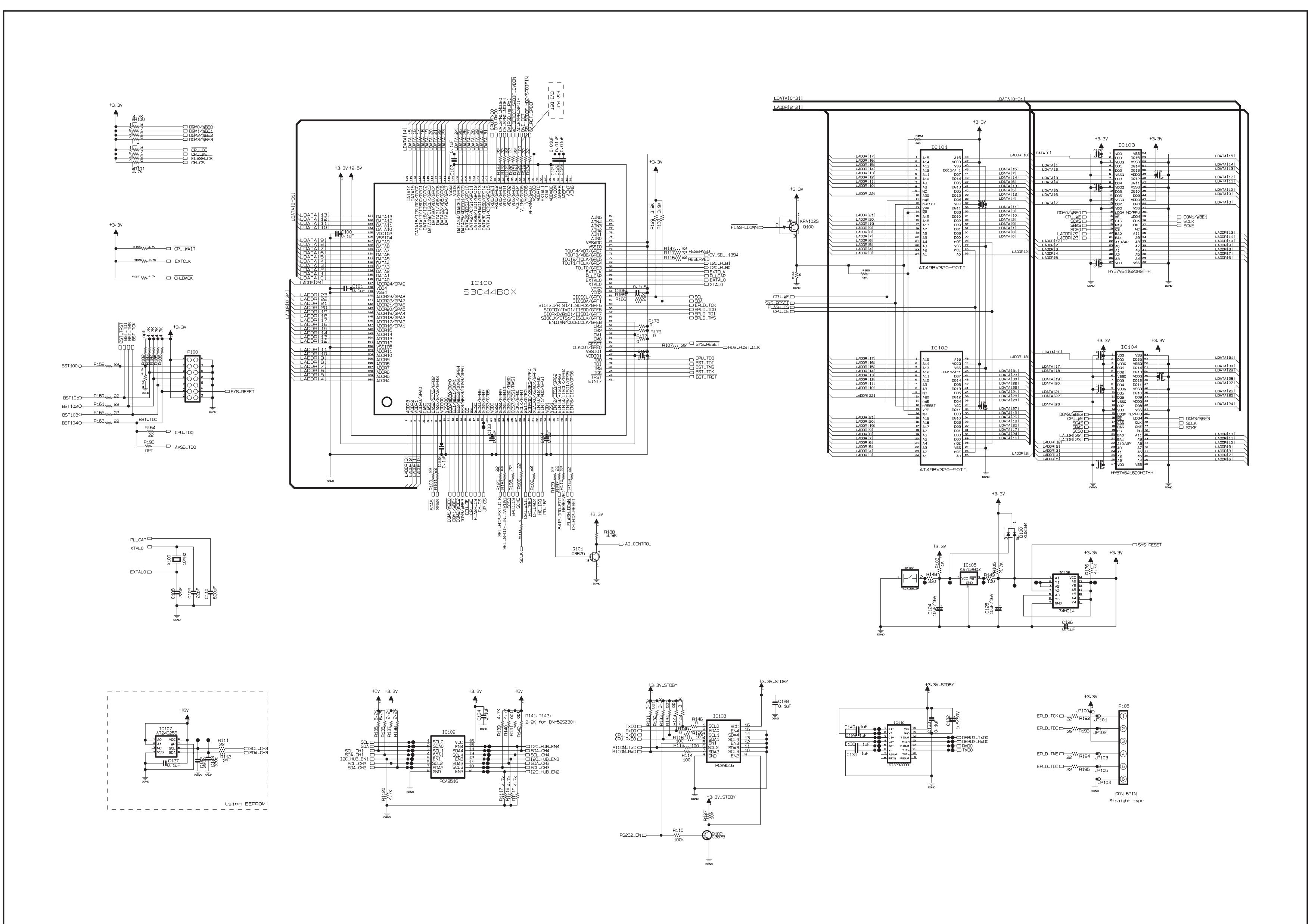
DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C813	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C814	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C815	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C817	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C818	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C819	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C820	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C823	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C824	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C825	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C826	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C827	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		C829	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C830	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C831	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C832	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C836	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C837	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C842	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C843	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C844	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C845	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C846	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C847	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C848	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C849	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C850	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C851	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C852	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C853	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C854	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C855	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C856	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C857	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C858	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C860	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C866	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C867	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) S
		C868	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) S
		C870	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C873	0CH8477F691	470UF MVK 16V 20% SMD R/TP(
		C875	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C878	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD)
		C882	0CH6220K416	22PF 2012 50V 5% NP0 -
		C883	0CH6220K416	22PF 2012 50V 5% NP0 -
		C897	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C898	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C899	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C900	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C901	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C905	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C906	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C927	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C930	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) S
		C936	0CH6150K416	15PF 2012 50V 5% NP0 R/TP
		C937	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C938	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C939	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C940	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C941	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) S
		C942	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C943	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C944	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C946	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C947	0CH6150K416	15PF 2012 50V 5% NP0 R/TP
		C953	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C954	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C958	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C959	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C960	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C961	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C962	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C963	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C964	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C965	0CH2474F566	0.47UF 16V 10% X7R 2012 R/T
		C966	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C967	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C968	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD)
		C970	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD)
		C971	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C972	0CH3222K516	2200PF 2012 50V 10% B(Y5P)
		C973	0CH3222K516	2200PF 2012 50V 10% B(Y5P)
		C974	0CH3222K516	2200PF 2012 50V 10% B(Y5P)
		C975	0CH3222K516	2200PF 2012 50V 10% B(Y5P)
		C976	0CH3222K516	2200PF 2012 50V 10% B(Y5P)
		C977	0CH3222K516	2200PF 2012 50V 10% B(Y5P)
		C978	0CH3222K516	2200PF 2012 50V 10% B(Y5P)
		C979	0CH3222K516	2200PF 2012 50V 10% B(Y5P)
		C981	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD)
		C987	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) S
		C991	0CH6020K116	2PF 2012 50V 0.5 PF C0G R/T
		C992	0CH6020K116	2PF 2012 50V 0.5 PF C0G R/T
		D701	0DS226009AA	KDS226 TP KEC - 80V -- 4NS
		IC102	OIMMRCS013A	"CAT24C21 CATALYST 8P,SOIC R"
		IC601	OIMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK"
		IC601	OIMMRAL014C	"AT24C02N-10SU-2.7,LF ATTEL-Non Pb-free
		IC603	OISTLTI049A	"CD4052BPWR,LF TEXAS INSTRUM"
		IC603	OIMCR5S003B	"SIL169CTG100,LF SILICON IMA-Non Pb-free
		IC604	OIMCRNL001A	"NSP-6241B NEOFIDELITY 64P T
		IC604	OIMCRNL001C	"NSP-6241B,PB FREE NEOFIDELI-Non Pb-free"
		IC605	OIMCRTI028C	"TAS5122DCARG4,LF TEXAS INS"
		IC606	OIKE702900G	KIA7029AF SOT-89 TP 2.9V VO
		IC608	0ICB533100A	CS5331A-KSR 8SOIC TP ADC -
		IC702	OIMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC704	OIMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC705	OIMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK"
		IC706	OIPRPM001A	MIC39100 MICREL 3P SOT223 R
		IC801	OIMCRSO025A	CXA2181Q SONY 48P QFP TRAY
		IC803	OISO206900A	CXA2069Q QFP64 BK I2C BUS A
		IC804	OIMMRNE002A	UPD64083GF3BA NEC 100 QFP S
		IC804	OIMMRNE002B	"UPD64083GF3BA-A,LF NEC 100-Non Pb-free"
		IC901	OIMCRTI001A	"SN74HCT157DR,LF TEXAS INST"
		IC902	OIMCRTI007A	TPA0242PWP TEXAS INSTRUMENT
		IC902	OIMCRTI007B	"TPA0242PWPRG4,LF TEXAS INST-Non Pb-free"
		IC904	OIMCRMN027B	MSP4440G-QA-C13-101WITH SRS
		L104	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L613	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L705	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L708	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L710	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L711	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L712	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L714	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L720	6210TCE001G	HH-1M3216-501 CERATEC 3216M

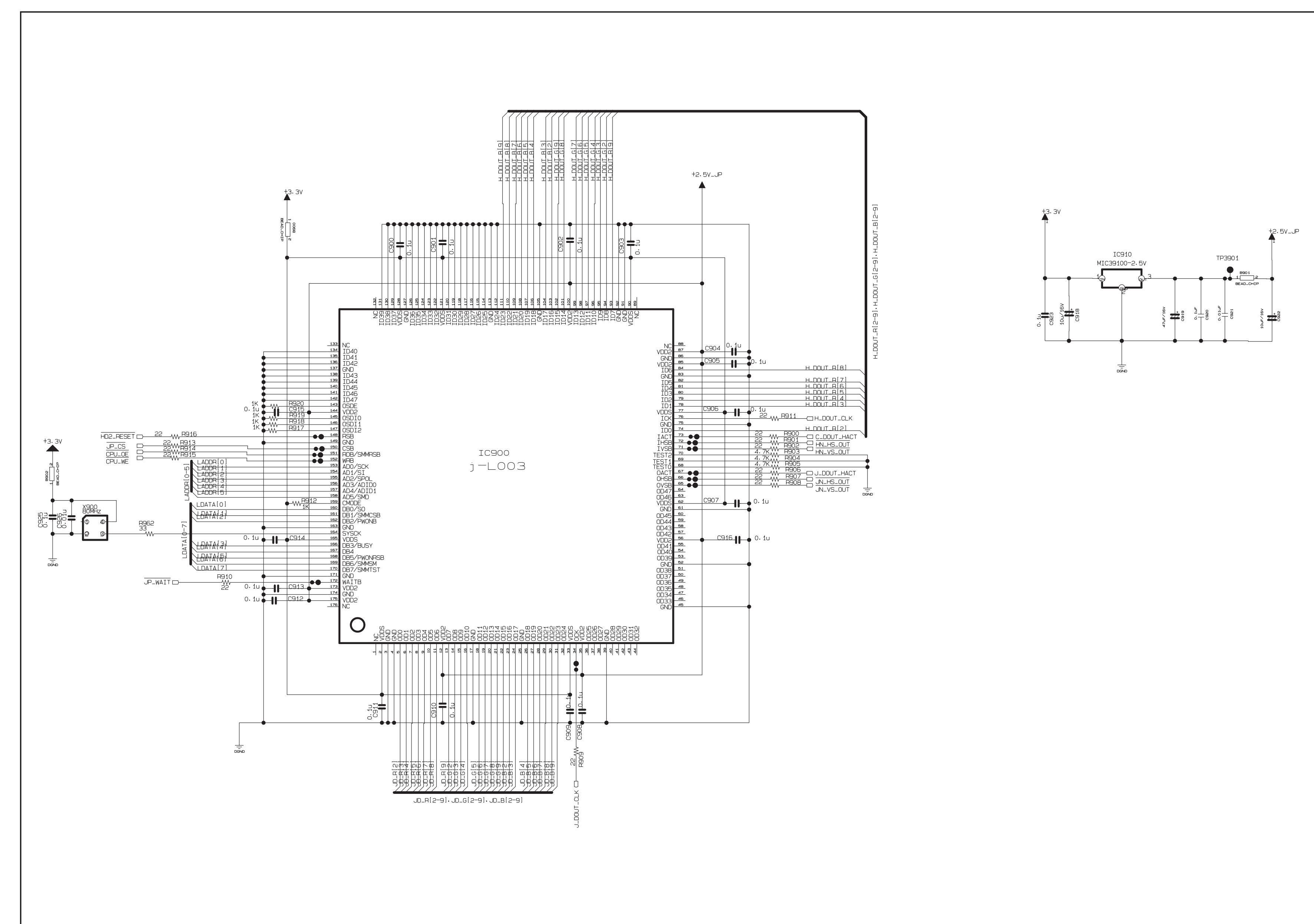
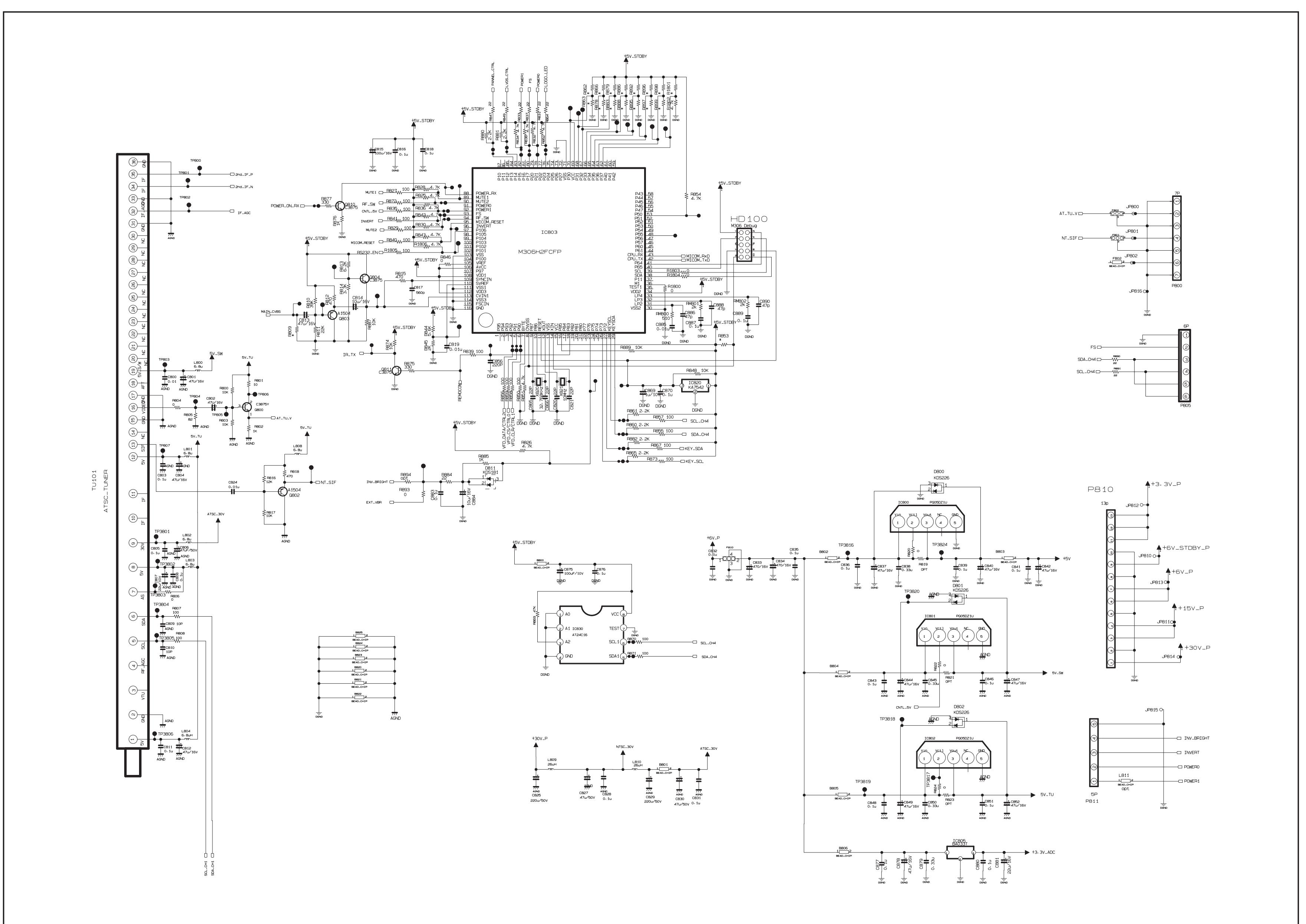
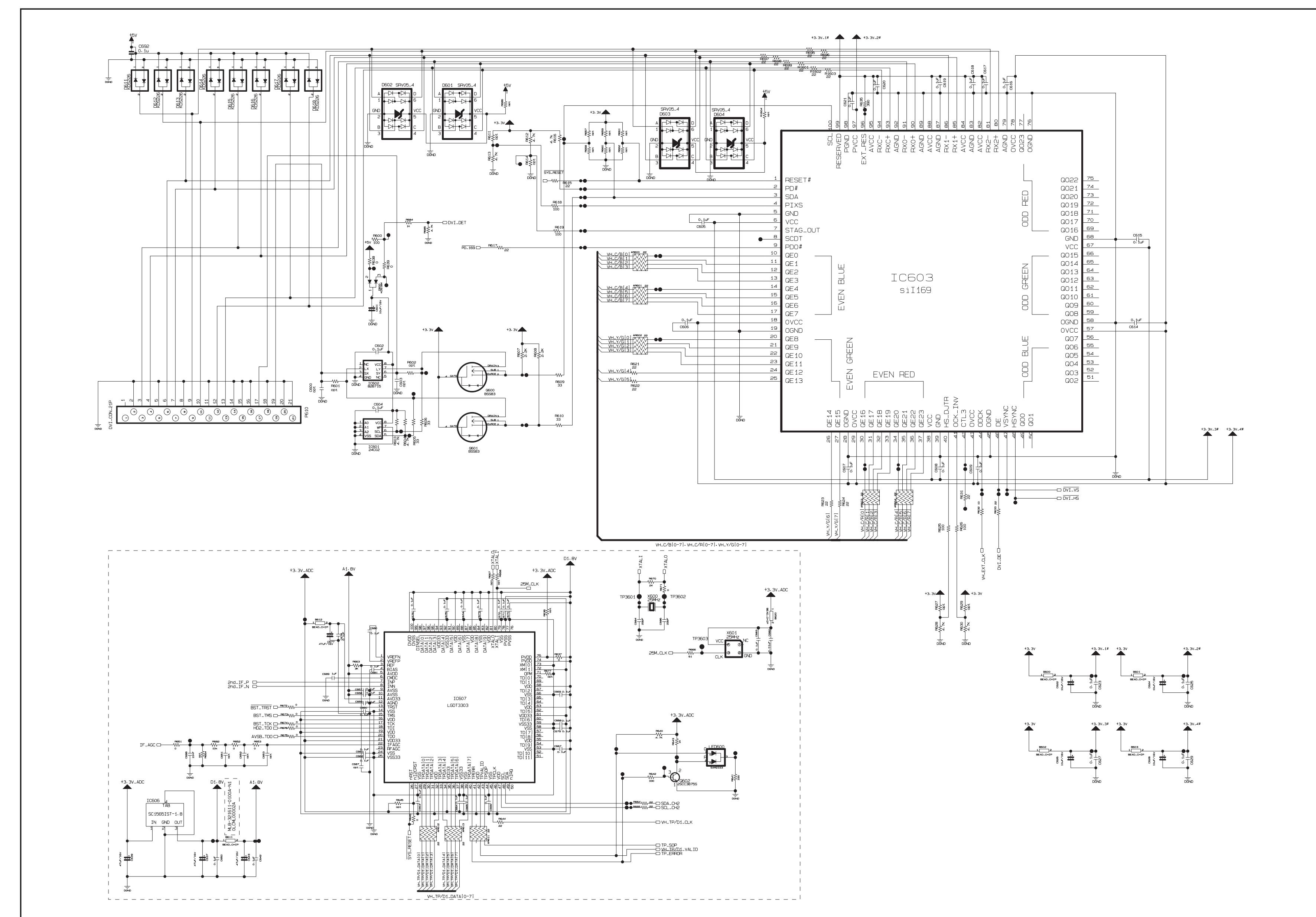
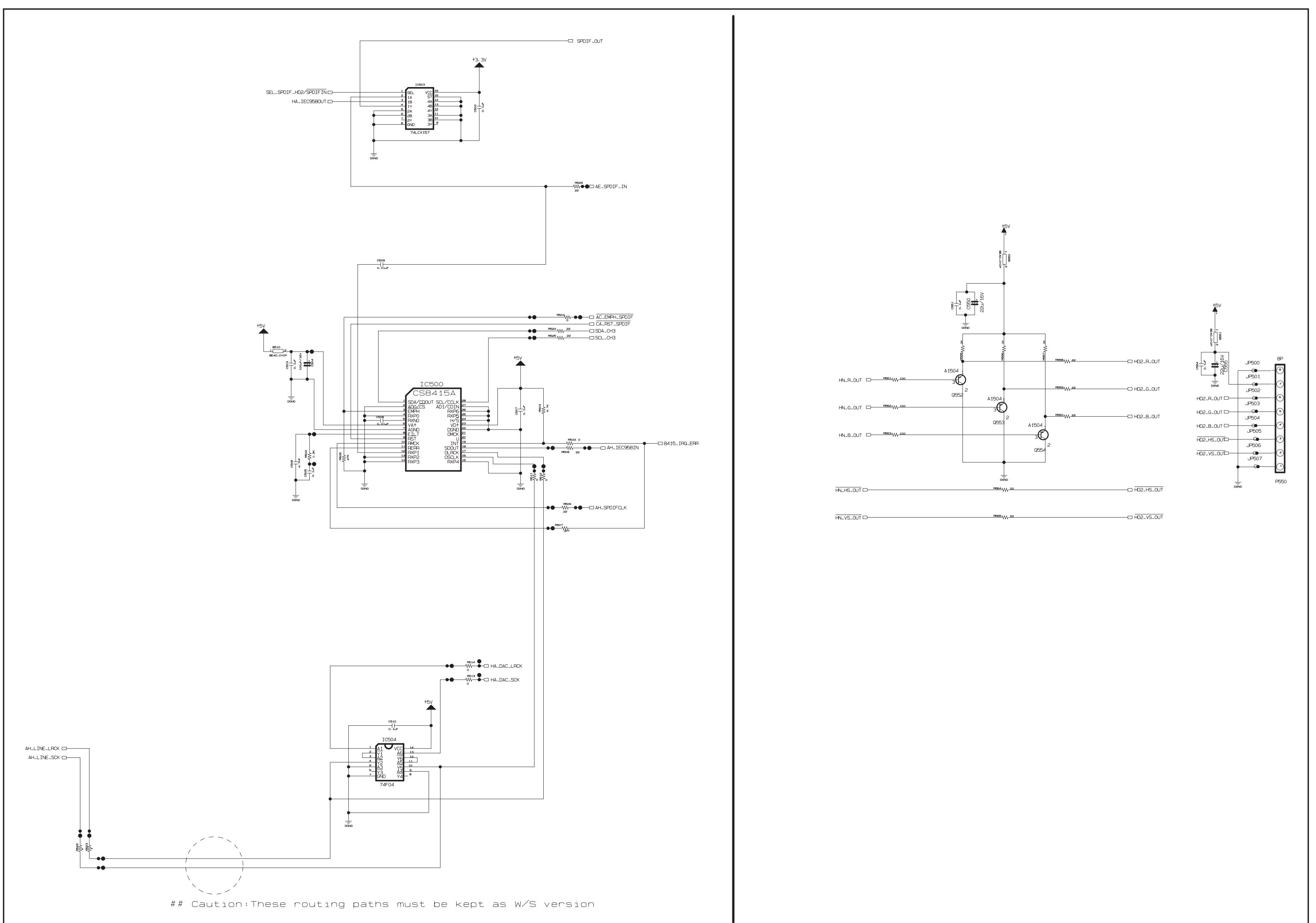
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		L724	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L725	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L801	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L819	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L831	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L832	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L848	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L849	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L850	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L851	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L852	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L853	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L855	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L856	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L857	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L858	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L865	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L909	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L911	OLC2232101A	22UH 10% 3216 R/TC FI-D3216
		L913	OLC2232101A	22UH 10% 3216 R/TC FI-D3216
		LD801	ODL23309AC	SAM2333 TP KWANG GREEN/RED
		LP100	6210TCE001D	HB-1M2012-601JT CERATEC 201
		LS600	6210TCE001P	HB-1S2012-121JT CERATECH 20
		LS601	6210TCE001P	HB-1S2012-121JT CERATECH 20
		LS602	6210TCE001P	HB-1S2012-121JT CERATECH 20
		LS603	6210TCE001P	HB-1S2012-121JT CERATECH 20
		P802	6602T11001A	FI-TWE21P-VF JAE 21P 1.25MM
		P803	6630VE00731	10022HS-31A02 YEONHO 31P 1.
		P804	6630VE00731	10022HS-31A02 YEONHO 31P 1.
		P805	6630VE00731	10022HS-31A02 YEONHO 31P 1.
		Q803	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q804	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q805	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q813	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q820	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q821	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q822	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q823	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q824	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q826	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q830	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q832	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q833	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q834	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q837	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q838	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q841	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q842	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q846	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q847	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q848	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q849	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q850	OTR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		QP100	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		QP101	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R113	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R114	ORH7500D622	750 OHM 1 / 10 W 5% D R/TP
		R115	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R116	ORH1202D622	12K OHM 1 / 10 W 2012 5.00%
		R118	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R121	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R123	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R124	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R130	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R131	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R132	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R133	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R134	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R136	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R137	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R142	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R144	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R146	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R148	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R149	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R150	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R151	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R152	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R153	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R154	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R155	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R156	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R157	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R158	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R159	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R160	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1600	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1603	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R161	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R163	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R167P	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R171P	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R179	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R180	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1809	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R181	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1813	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R1815	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R1823	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R1824	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1825	ORH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R1826	ORH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R183	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R1836	ORH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R1837	ORH8200D622	820 OHM 1 / 10 W 2012 5.00%
		R1838	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R1839	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R184	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1842	ORH2203D622	220K OHM 1 / 10 W 2012 5.00
		R1844	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R185	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1854	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1856	ORH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R1857	ORH8200D622	820 OHM 1 / 10 W 2012 5.00%
		R1858	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R1859	ORH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R186	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R1860	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1869	ORH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R187	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1870	ORH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R1871	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R188	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1880	ORH5601D622	5.6K OHM 1 / 10 W 2012 5.00

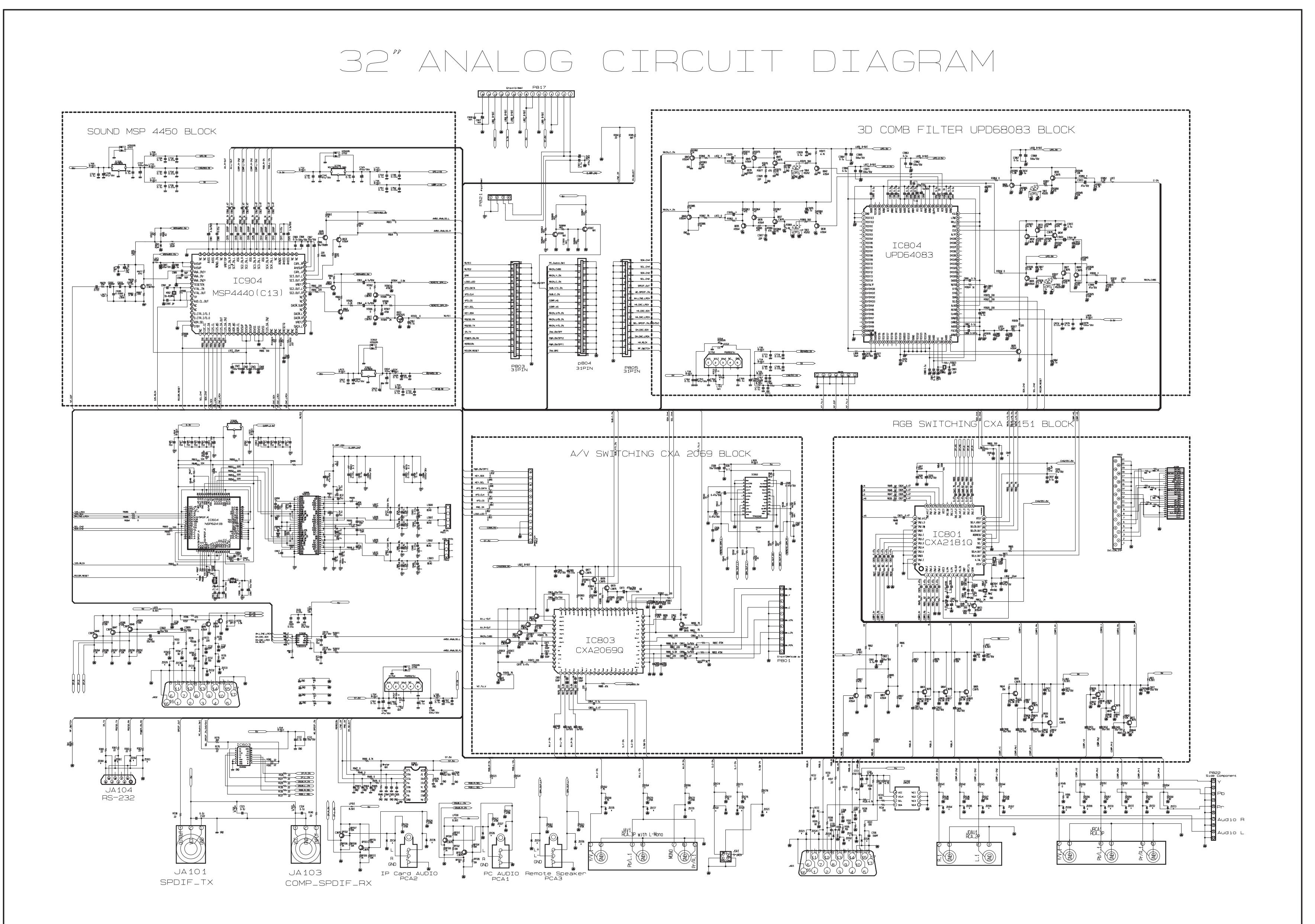
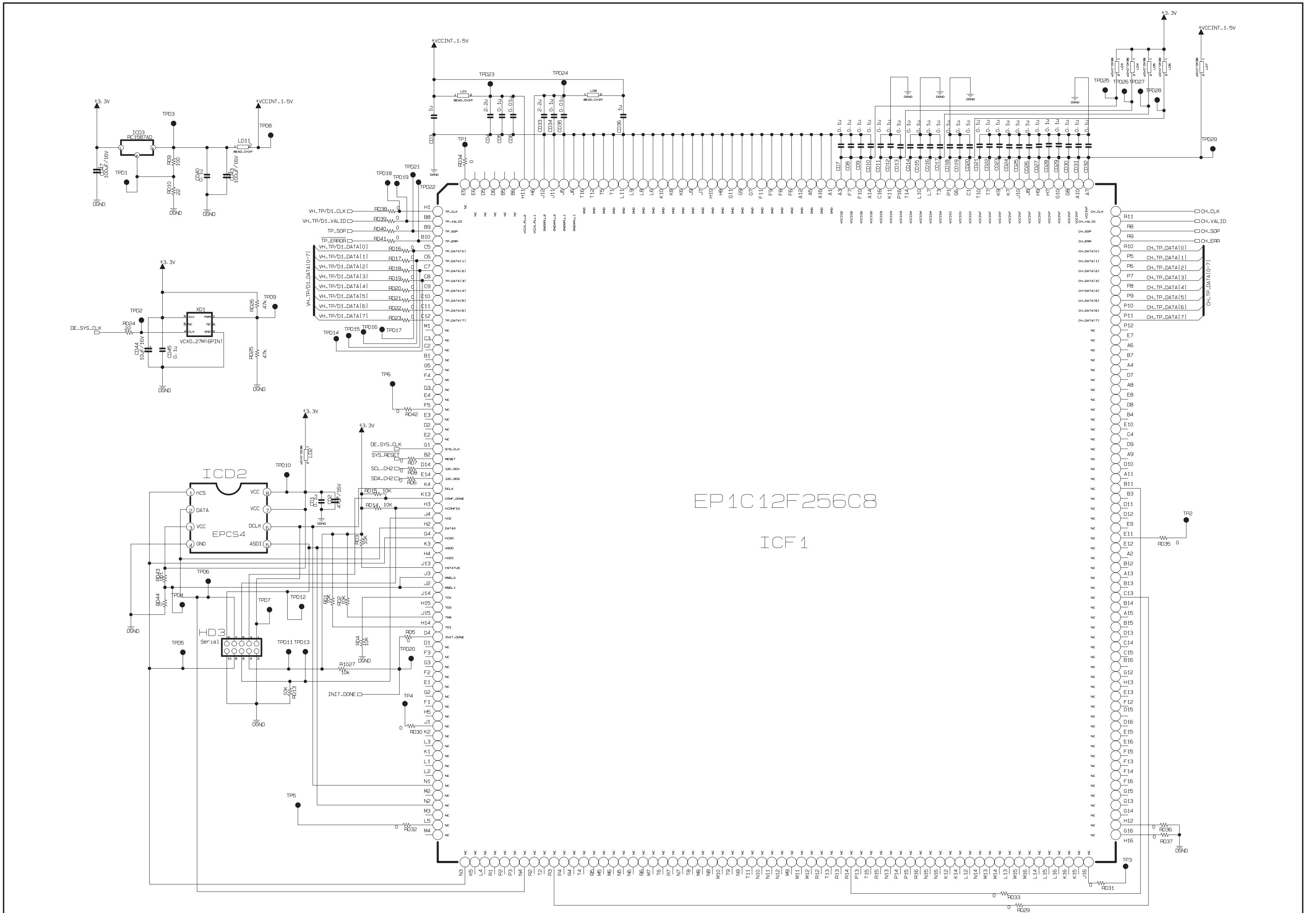
DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R189	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R190	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R191	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R192	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1922	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1923	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1924	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R193	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R194	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R195	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R196	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R197	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R198	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R199	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R300	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R301	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R302	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R303	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R602	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R648	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R649	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R650	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R651	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R652	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R653	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R654	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R656	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R657	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R658	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R659	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R662	ORH0471D622	4.7 OHM 1 / 10 W 2012 5.00%
		R665	ORH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R666	ORH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R667	ORH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R668	ORH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R671	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R672	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R676	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R677	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R681	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R682	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R683	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R684	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R685	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R686	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R690	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R697	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R698	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R802	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R806	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R812	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R813	ORH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R814	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R815	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R816	ORH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R817	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R818	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R819	ORH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R820	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R821	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R822	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R823	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R835	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R845	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R846	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R847	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R848	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R849	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R850	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R851	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R855	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R856	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R857	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R858	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R860	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R861	ORH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R863	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R864	ORH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R876	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R877	ORH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R878	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R879	ORH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R880	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R882	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R886	ORH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R888	ORH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R898	ORH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R900	ORH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R907	ORH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R908	ORH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R909	ORH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R911	ORH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R930	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R931	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R932	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R933	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R934	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R935	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R936	ORH6801D622	6.8K OHM 1 / 10 W 2012 5.00
		R937	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R938	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R941	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R942	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R947	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R948	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R949	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R950	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R951	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R952	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R953	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R954	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R955	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R975	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R987	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R988	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R989	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R990	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R991	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R992	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R993	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R994	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		RP100	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		RP101	ORH2202D622	22K OHM 1 / 10 W 2012 5.00%
		RP102	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%

DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		RP103	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		T801	6200J00011B	H354LAI-K5225 TOKO R/TP BAN
		T802	6200J00011B	H354LAI-K5225 TOKO R/TP BAN
		T803	6200J00011A	H354LAI-K5202 TOKO R/TP BAN
		T804	6200J00011A	H354LAI-K5202 TOKO R/TP BAN
		X801	6212AB2015A	HC-49/SM4H BUBANG 4MHZ +/-
		X803	6212AB2015B	HC-49/SM5H BUBANG 20MHZ +/-
		X902	6202VDT002H	SX-1 SUNNY 18.432000MHZ +/-
		ZD105	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD107	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD110	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD111	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD112	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD113	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD114	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD116	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD129	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD130	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD131	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD903	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD904	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD905	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
SIDE A/V BOARD				
		C2101	0CH6331K416	330PF 2012 50V 5% NP0 R/TP
		C2102	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C2104	0CH6331K416	330PF 2012 50V 5% NP0 R/TP
		C2107	0CH6331K416	330PF 2012 50V 5% NP0 R/TP
		L2101	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L2102	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L2103	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L2104	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L2105	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2103	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R2104	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R2105	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R2106	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R2107	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R2109	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R2116	0RH0472D622	47 OHM 1 / 10 W 2012 5.00%
		R2117	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R2118	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R2123	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2124	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2125	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2126	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2127	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2128	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2129	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2154	0RH0472D622	47 OHM 1 / 10 W 2012 5.00%
		R2155	0RH0472D622	47 OHM 1 / 10 W 2012 5.00%
		R2156	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		ZD2101	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD2102	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD2103	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD2110	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
IR&LIGHT BOARD				
		C3104	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		IC1	0IMI623200B	"M62320FP,I/O EXPANDER 16P S"
		L1201	6210TCE001A	HB-1S2012-080JT CERATEC 201
DATE: 2005. 07. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L3102	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		Q3101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3103	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3104	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3106	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R3102	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3103	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3104	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3105	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3106	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3107	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3108	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3109	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3110	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3111	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3112	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3113	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3114	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3115	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3116	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3117	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3118	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3119	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3120	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R3121	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3123	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3124	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3125	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3126	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3127	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3128	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3129	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3130	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3131	6210TCE001A	HB-1S2012-080JT CERATEC 201
		R3132	6210TCE001A	HB-1S2012-080JT CERATEC 201
		R3133	6210TCE001A	HB-1S2012-080JT CERATEC 201
		R3134	6210TCE001A	HB-1S2012-080JT CERATEC 201
		R3135	6210TCE001A	HB-1S2012-080JT CERATEC 201
		R3136	6210TCE001A	HB-1S2012-080JT CERATEC 201
		R3137	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3138	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3139	0RH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R3140	0RH6202D622	62K OHM 1 / 10 W 2012 5.00%
		R3141	0RH6202D622	62K OHM 1 / 10 W 2012 5.00%
		R3145	0RH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R3146	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R3147	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R3148	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R3149	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R3150	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R3151	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3152	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3153	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		LED3232	0DL200000CA	SAM5670(DL-2LRG) BK Y-GREEN
		RPE3101	6726TV0001A	TSOP4838SO1 VISHAY 38.0KHZ
		C3101	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C3102	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3103	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C3106	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S

DATE: 2005.07.10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L3101 LED801 LED802 LED803 LED804 LED805 LED806 LED807 Q3215 Q3216 Q3217 R3101	6210TCE001G 0DLBE0158AA 0DLBE0158AA 0DLBE0158AA 0DLBE0158AA 0DLBE0158AA 0DLBE0158AA 0DLBE0158AA 0TR387500AA 0TR387500AA 0TR387500AA 0RJ4701D477	HH-1M3216-501 CERATEC 3216M BRIGHT LED ELECTRONICS BL-H BRIGHT LED ELECTRONICS BL-H CHIP 2SC3875S(ALY) BK KEC - CHIP 2SC3875S(ALY) BK KEC - CHIP 2SC3875S(ALY) BK KEC - 4.7K OHM 1/10 W 1% 1608 R/T









LG Electronics Inc.

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